UNIVERSAL ELECTRIC TOOLS

CATALOG
No. 899
4th Edition

DRILLS • REAMERS • TAPPERS
SCREW DRIVERS • NUT RUNNERS
GRINDERS • SANDERS • BUFFERS

CHICAGO PNEUMATIC TOOL COMPANY

For nearest Representative see following page

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NEAREST REPRESENTATIVE

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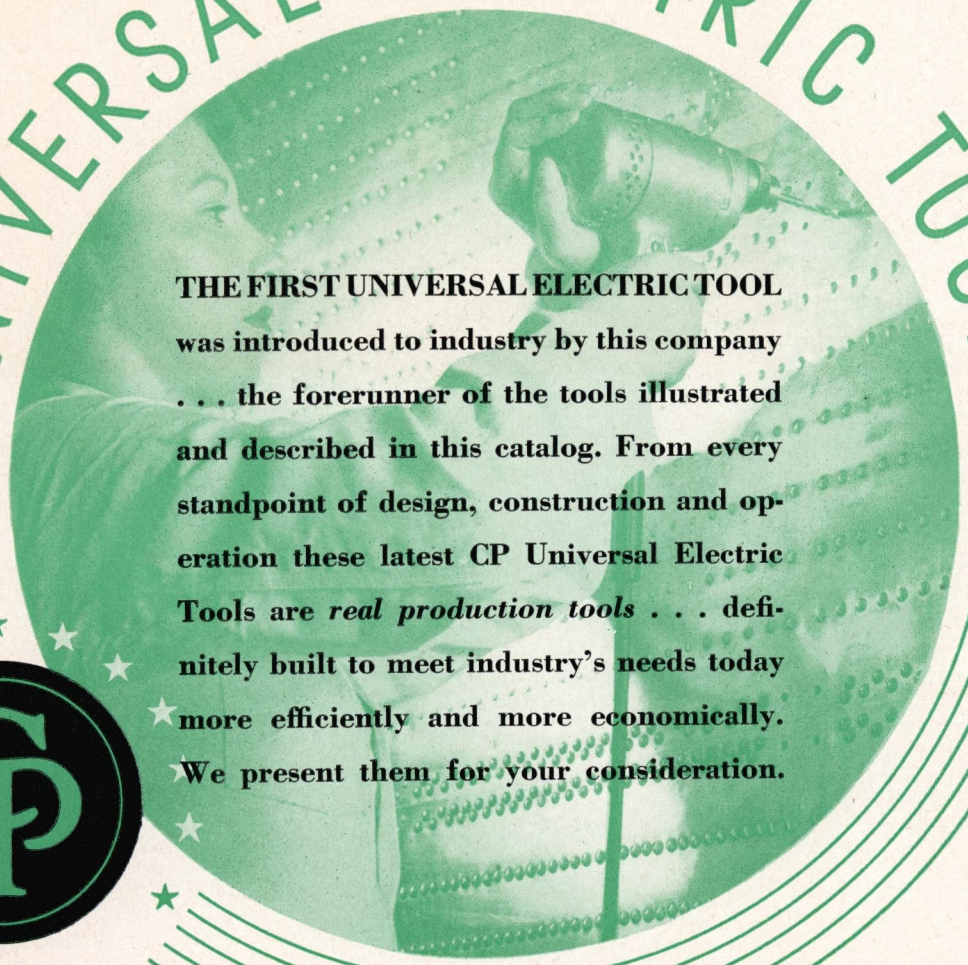
Chicago Pneumatic Tool Co.

UNIVERSAL ELECTRIC TOOLS



THE FIRST UNIVERSAL ELECTRIC TOOL was introduced to industry by this company . . . the forerunner of the tools illustrated and described in this catalog. From every standpoint of design, construction and operation these latest CP Universal Electric Tools are *real production tools* . . . definitely built to meet industry's needs today more efficiently and more economically. We present them for your consideration.

CHICAGO PNEUMATIC TOOL COMPANY

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CHICAGO PNEUMATIC TOOL COMPANY

UNIVERSAL DRILLS

CP Universal Drills, described on the following pages, are genuine production tools —definitely designed for hard, continuous work rather than intermittent service. As such, their dependability and low maintenance cost are outstanding—are characteristic of the entire line, from the smallest size to the largest.

UNIVERSAL

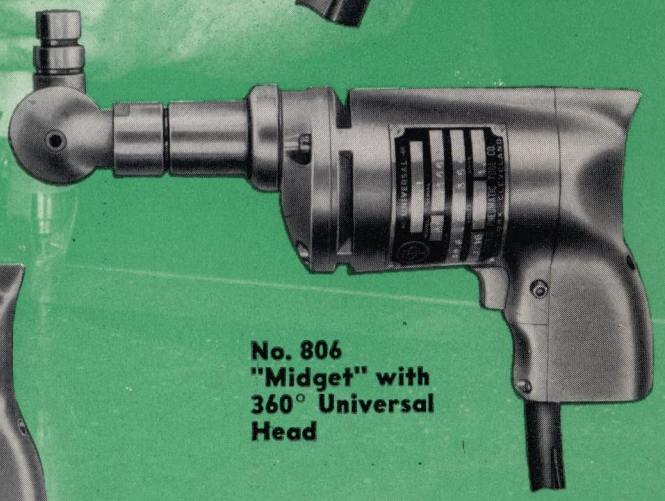
1/4 INCH DRILLS

"MIDGET"

APPLICATIONS:

CP Universal "Midget" Drills are ideal for close quarter ¼" production drilling in airplane, automobile body trim, radio, refrigerator, wood and metal furniture, sheet steel fabrication, etc.

No. 806 "Midget" Drill



No. 806 "Midget" with 360° Universal Head

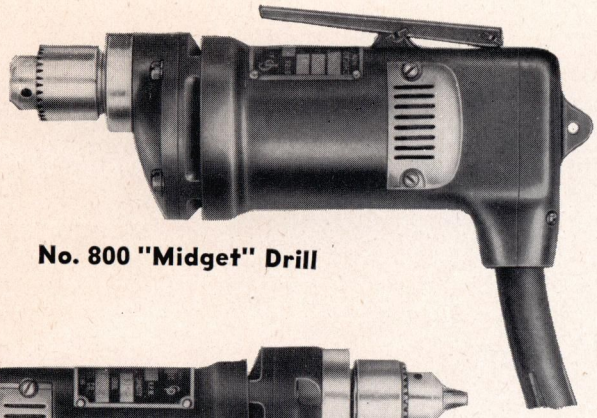
No. 806 Drill Equipped with "Hole Spotter"

CHICAGO PNEUMATIC TOOL COMPANY

"MIDGET"

UNIVERSAL

1/4 INCH DRILLS



No. 800 "Midget" Drill

No. 805 "Midget" Drill

SPECIFICATIONS

Size No.	CAPACITY		SPEED R.P.M.		Net Weight	Overall Length	Spindle Offset	CODE WORD	
	Metal	Wood	Free	Loaded				110V	220V
800-5200	¼"	¼"	5200	3100	3½ lbs.	8⅞"	¾"	UNOCV	UNOCW
800-3500	¼"	¼"	3500	2100	3½ lbs.	8⅞"	¾"	UNOCT	UNOCU
800-2500	¼"	¼"	2500	1500	3½ lbs.	8⅞"	¾"	UNADO	UNADP
805-5200	¼"	¼"	5200	3100	3⅜ lbs.	7⅛"	¾"	UNBGA	UNBHC
805-3500	¼"	¼"	3500	2100	3⅜ lbs.	7⅛"	¾"	UNBEX	UNBFI
805-2500	¼"	¼"	2500	1500	3⅜ lbs.	7⅛"	¾"	UNIYP	UNIYQ
806-5200	¼"	¼"	5200	3100	3⅜ lbs.	7⅝"	¾"	UNOEY	UNOEZ
806-3500	¼"	¼"	3500	2100	3⅜ lbs.	7⅝"	¾"	UNOEW	UNOEX
806-2500	¼"	¼"	2500	1500	3⅜ lbs.	7⅝"	¾"	UNOFA	UNOFB

Can be furnished for 32 volts and 250 volts on special order

Standard Equipment: 3-Conductor Cable and Plug. ¼" Capacity 3-Jaw Key Chuck.

Extra Equipment: Hole Spotter; added weight, 9 ozs., added length, 2⅝". Chuck Protector Sleeve; added weight, 1 oz.

UNIVERSAL

1/4 INCH DRILLS

FOR SPECIAL AIRCRAFT WORK

No. 820-1800 Drill

No. 816-1800 Drill

No. 818 Switch with Cable Disconnector

No. 816-3700 Drill

Nos. 815, 816, 818 and 820 Drills are light weight but powerfully and ruggedly constructed. Particularly adapted for metal and wood production drilling work on airplane fabrication. Perfect balance, plus light weight, permits over-shoulder operation without fatigue. A particular favorite of women employees in the aviation industry. They stand up under hard service because they are specially designed for the production line.

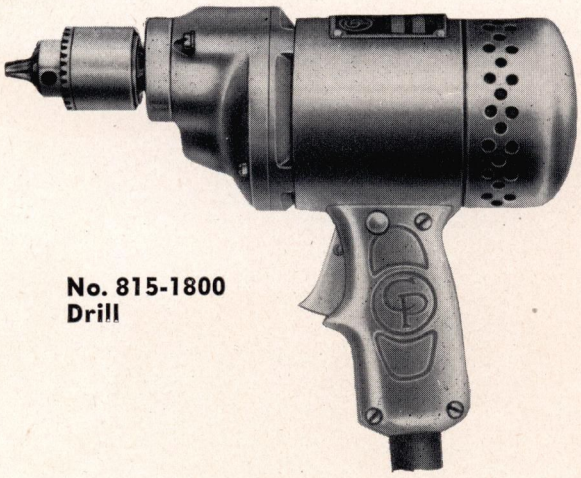
CHICAGO PNEUMATIC TOOL COMPANY

FOR SPECIAL AIRCRAFT WORK

UNIVERSAL

1/4 INCH DRILLS

No. 815-3700 Drill



No. 815-1800 Drill

SPECIFICATIONS

Size No.	CAPACITY		SPEED R.P.M.		Net Weight	Overall Length	Spindle Offset	* CODE WORD	
	Metal	Wood	Free	Loaded				110V	220V
815-6000	1/4"	1/2"	6000	3600	4 1/4 lbs.	7 1/2"	25/32"	CAIUF	CAIUG
815-5000	1/4"	1/2"	5000	3200	4 1/4 lbs.	7 1/2"	25/32"	CAIVE	CEBRA
815-3700	1/4"	1/2"	3700	2300	4 1/4 lbs.	7 1/2"	25/32"	CIGAO	CLUIT
815-2500	1/4"	1/2"	2500	1800	5 lbs.	8 5/8"	7/8"	CEBAS	CEBAT
815-1800	1/4"	1/2"	1800	1200	5 lbs.	8 5/8"	7/8"	CEBAU	CEBAV
815-1200	1/4"	1/2"	1200	720	5 lbs.	8 5/8"	7/8"	CEBAW	CEBAX
816-6000	1/4"	1/2"	6000	3600	4 3/4 lbs.	10 3/4"	25/32"	UNADQ	UNADR
816-5000	1/4"	1/2"	5000	3200	4 3/4 lbs.	10 3/4"	25/32"	UNIVI	UNIVN
816-3700	1/4"	1/2"	3700	2300	4 3/4 lbs.	10 3/4"	25/32"	UNIVJ	UNIVO
816-2500	1/4"	1/2"	2500	1800	5 1/2 lbs.	11 7/8"	7/8"	UNADS	UNADT
816-1800	1/4"	1/2"	1800	1200	5 1/2 lbs.	11 7/8"	7/8"	UNADU	UNADV
816-1200	1/4"	1/2"	1200	720	5 1/2 lbs.	11 7/8"	7/8"	UNADW	UNADY
818-6000	1/4"	1/2"	6000	3600	5 lbs.	10 3/4"	25/32"	UNIUY	UNIUZ
818-5000	1/4"	1/2"	5000	3200	5 lbs.	10 3/4"	25/32"	UNIVL	UNIVP
818-3700	1/4"	1/2"	3700	2300	5 lbs.	10 3/4"	25/32"	UNIVM	UNIVQ
818-2500	1/4"	1/2"	2500	1800	5 3/4 lbs.	11 7/8"	7/8"	UNADZ	UNAEB
818-1800	1/4"	1/2"	1800	1200	5 3/4 lbs.	11 7/8"	7/8"	UNAEC	UNAED
818-1200	1/4"	1/2"	1200	720	5 3/4 lbs.	11 7/8"	7/8"	UNAEF	UNAEG
820-6000	1/4"	1/2"	6000	3600	4 1/2 lbs.	9 1/2"	25/32"	UNAEH	UNAEJ
820-5000	1/4"	1/2"	5000	3200	4 1/2 lbs.	9 1/2"	25/32"	UNAEK	UNAEL
820-3700	1/4"	1/2"	3700	2300	4 1/2 lbs.	9 1/2"	25/32"	UNAEM	UNAEN
820-2500	1/4"	1/2"	2500	1800	5 1/4 lbs.	10 5/8"	7/8"	UNAEP	UNAEQ
820-1800	1/4"	1/2"	1800	1200	5 1/4 lbs.	10 5/8"	7/8"	UNAER	UNAES
820-1200	1/4"	1/2"	1200	720	5 1/4 lbs.	10 5/8"	7/8"	UNAET	UNAEW

Can be furnished for 32 Volts and 250 Volts on Special Order

*Add "REVER" for Reversible.

Standard Equipment: 3-Conductor Cable and Plug. 3-Jaw Key Chuck.

Optional Equipment: Reversing Switch furnished with Nos. 816 and 818 Drills at extra charge.

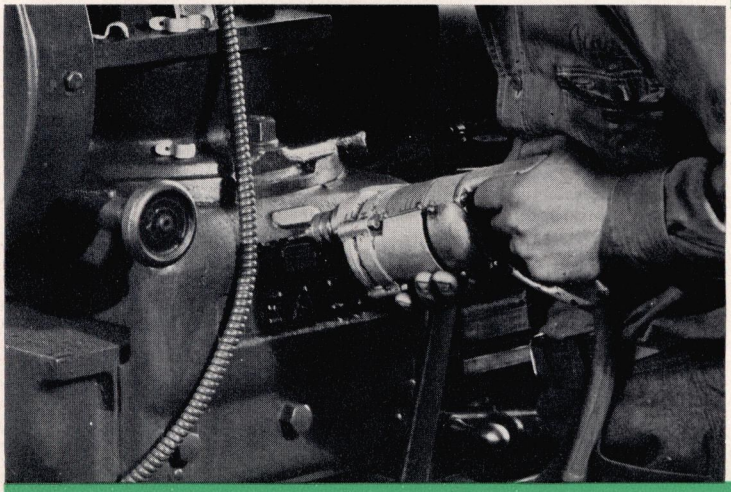
Extra Equipment: Chuck Protector Sleeve for Nos. 815 and 816; Rubber Bumpers for No. 815 only.

UNIVERSAL

1/4 INCH DRILLS

STANDARD DUTY

No. 830 Drill



APPLICATIONS:

No. 830 Drill is a general purpose tool for light work and intermittent drilling in metal or wood, up to its rated capacity.

SPECIFICATIONS

Size No.	CAPACITY		SPEED R.P.M.		Net Weight	Overall Length	Spindle Offset	*CODE WORD	
	Metal	Wood	Free	Loaded				110V	220V
830-2000	¼"	½"	2000	1200	6¼ lbs.	11½"	1"	UNIVR	UNIVS

Can be furnished for 32 Volts and 250 Volts on Special Order

*Add "REVER" for Reversible.
Standard Equipment: 3-Jaw Key Chuck. 3-Conductor Cable and Plug.
Optional Equipment: Reversing Switch at extra charge.

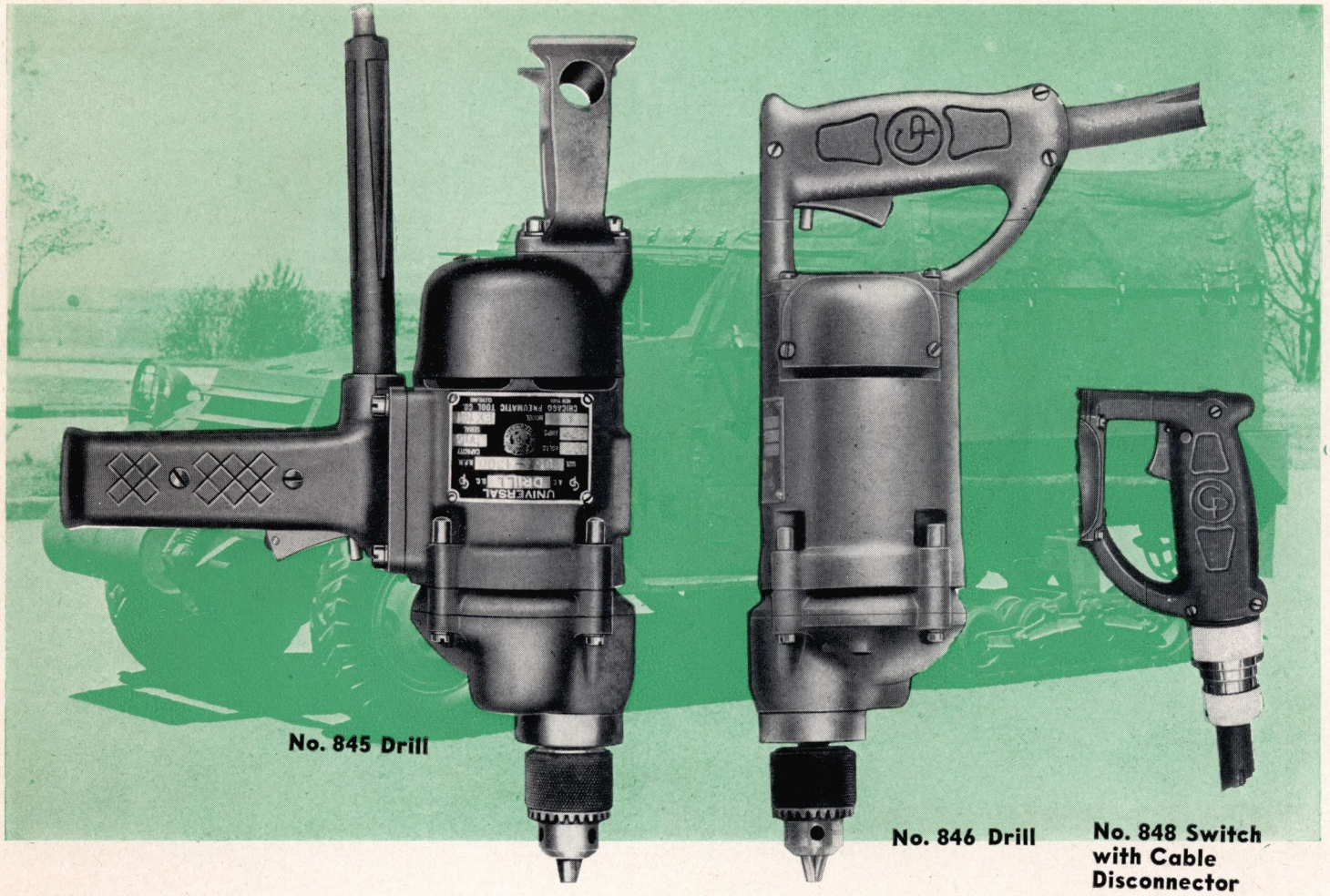
CHICAGO PNEUMATIC TOOL COMPANY

HEAVY DUTY

for Low Speeds

UNIVERSAL

1/4 INCH DRILLS



APPLICATIONS: For extra heavy duty, severe service and continuous production in automobile, auto body, railway car plants, etc. Particularly suitable for low speed drilling operations. (Should not be confused with lower priced, intermittent duty models of the same rated capacity.) Combination Spade Handle on No. 845 may be turned 90 degrees or removed entirely.

SPECIFICATIONS

Size No.	CAPACITY Drilling Metal	CAPACITY Drilling Wood	SPEED R.P.M. Free	SPEED R.P.M. Loaded	Net Weight	Overall Length	Spindle Offset	*CODE WORD 110V	*CODE WORD 220V
845-1900	1/4"	1/2"	1900	1150	8 1/4 lbs.	12 3/8"	1 1/32"	UNIVT	UNIVU
846-1900	1/4"	1/2"	1900	1150	7 5/8 lbs.	12 5/8"	1 1/32"	UNIVV	UNIVX
848-1900	1/4"	1/2"	1900	1150	7 3/8 lbs.	12 5/8"	1 1/32"	UNIVW	UNIVY

Can be furnished for 32 Volts and 250 Volts on Special Order

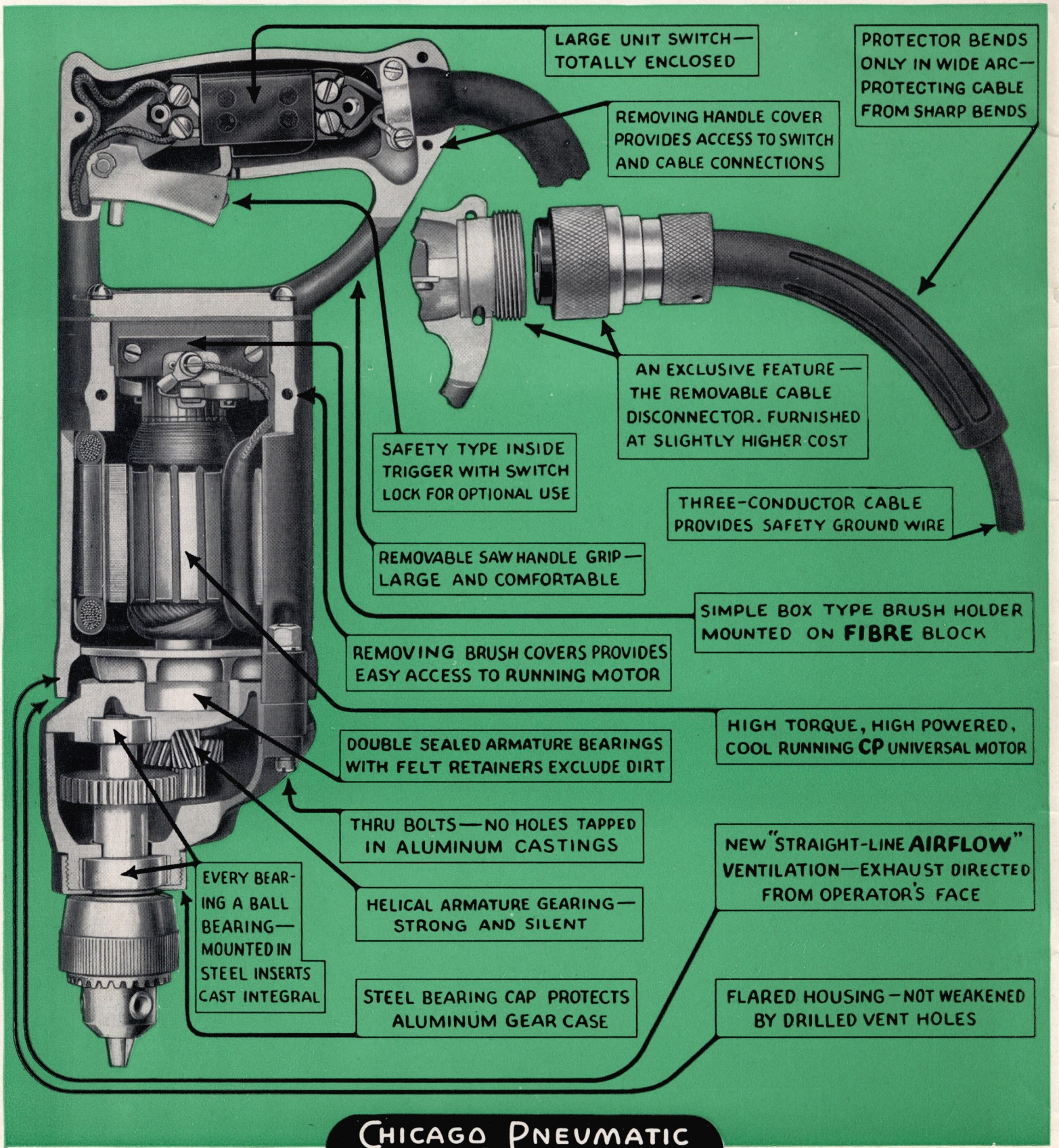
*Add "REVER" for Reversible.

Standard Equipment: 3-Jaw Key Chuck. 3-Conductor Cable and Plug.

Optional Equipment: Reversing Switch at extra charge. Optional speed of 2500 R.P.M. Free—1500 R.P.M. Loaded. Specify size No. 845-2500, 846-2500 or 848-2500.

TYPICAL CONSTRUCTION PISTOL GRIP DRILLS

UNIVERSAL HEAVY DUTY


LARGE UNIT SWITCH— TOTALLY ENCLOSED
PROTECTOR BENDS ONLY IN WIDE ARC— PROTECTING CABLE FROM SHARP BENDS
REMOVING HANDLE COVER PROVIDES ACCESS TO SWITCH AND CABLE CONNECTIONS
AN EXCLUSIVE FEATURE — THE REMOVABLE CABLE DISCONNECTOR. FURNISHED AT SLIGHTLY HIGHER COST
SAFETY TYPE INSIDE TRIGGER WITH SWITCH LOCK FOR OPTIONAL USE
THREE-CONDUCTOR CABLE PROVIDES SAFETY GROUND WIRE
REMOVABLE SAW HANDLE GRIP— LARGE AND COMFORTABLE
SIMPLE BOX TYPE BRUSH HOLDER MOUNTED ON FIBRE BLOCK
REMOVING BRUSH COVERS PROVIDES EASY ACCESS TO RUNNING MOTOR
HIGH TORQUE, HIGH POWERED, COOL RUNNING CP UNIVERSAL MOTOR
DOUBLE SEALED ARMATURE BEARINGS WITH FELT RETAINERS EXCLUDE DIRT
THRU BOLTS—NO HOLES TAPPED IN ALUMINUM CASTINGS
NEW "STRAIGHT-LINE AIRFLOW" VENTILATION—EXHAUST DIRECTED FROM OPERATOR'S FACE
EVERY BEARING A BALL BEARING— MOUNTED IN STEEL INSERTS CAST INTEGRAL
HELICAL ARMATURE GEARING— STRONG AND SILENT
STEEL BEARING CAP PROTECTS ALUMINUM GEAR CASE
FLARED HOUSING—NOT WEAKENED BY DRILLED VENT HOLES

CHICAGO PNEUMATIC TOOL COMPANY

UNIVERSAL 5/16 INCH DRILLS

No. 866 Drill

No. 865 Drill

No. 868 Switch with Cable Disconnector

APPLICATIONS:

Nos. 865, 866 and 868 are recommended for continuous work in production plants, such as automobile, auto body, structural steel, car plants, etc. Combination Spade Handle on No. 865 Drill may be turned 90 degrees or removed entirely.

SPECIFICATIONS

Size No.	CAPACITY Drilling		SPEED R. P. M.		Net Weight	Overall Length	Spindle Offset	*CODE WORD	
	Metal	Wood	Free	Loaded				110V	220V
865-1300	5/16"	5/8"	1300	800	8½ lbs.	13 1/8"	1 1/32"	UNIVZ	UNIAN
866-1300	5/16"	5/8"	1300	800	7⅝ lbs.	12¾"	1 1/32"	UNIBO	UNIDQ
868-1300	5/16"	5/8"	1300	800	7⅞ lbs.	12¾"	1 1/32"	UNICP	UNIER

Can be furnished for 32 Volts and 250 Volts on Special Order

*Add "REVER" for Reversible.

Standard Equipment: 3-Jaw Key Chuck. 3-Conductor Cable and Plug.

Optional Equipment: Furnished with Reversing Switch at extra charge. Optional speed of 1900 R. P. M. Free—1150 R. P. M. Loaded, specify Size No. 865-1900, 866-1900 or 868-1900.

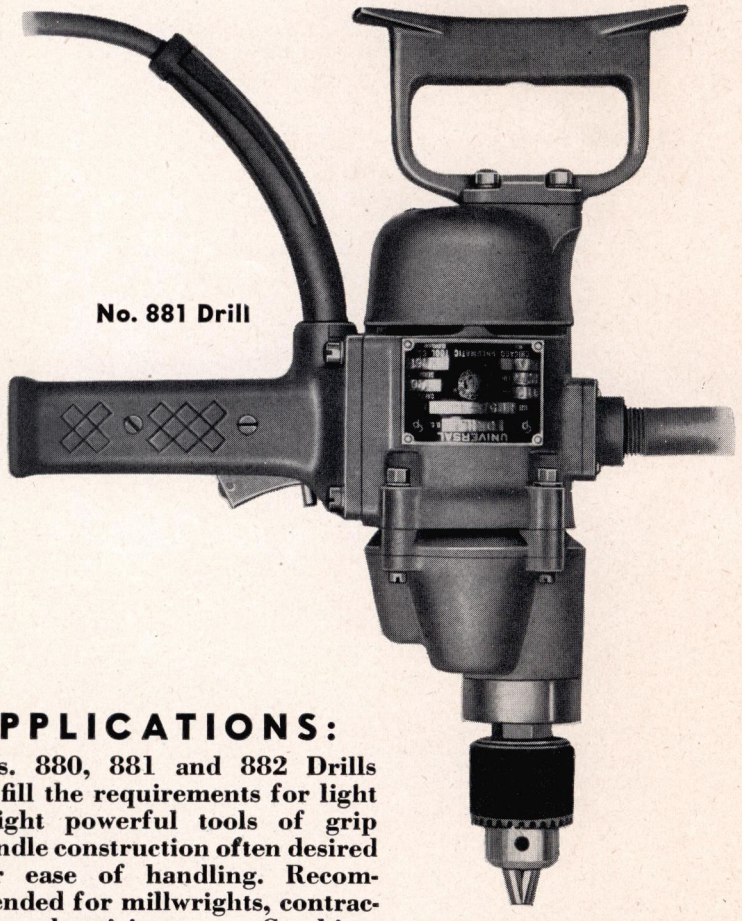
UNIVERSAL

3/8 INCH DRILLS

STANDARD DUTY

No. 880 Drill

No. 882 Switch with Cable Disconnector



No. 881 Drill

APPLICATIONS:

Nos. 880, 881 and 882 Drills fulfill the requirements for light weight powerful tools of grip handle construction often desired for ease of handling. Recommended for millwrights, contractors, electricians, etc. Combination Spade Handle on No. 881 Drill may be turned 90 degrees or removed entirely.

SPECIFICATIONS

Size No.	CAPACITY Drilling Metal	CAPACITY Drilling Wood	SPEED R. P. M. Free	SPEED R. P. M. Loaded	Net Weight	Overall Length	Spindle Offset	*CODE WORD 110V	*CODE WORD 220V
880-750	3/8"	3/4"	750	450	9 lbs.	14 1/8"	1 1/16"	UNIHU	UNIJW
881-750	3/8"	3/4"	750	450	10 1/4 lbs.	14 1/4"	1 1/16"	UNIFS	UNIGT
882-750	3/8"	3/4"	750	450	9 1/4 lbs.	14 1/8"	1 1/16"	UNIIV	UNIKX

Can be furnished for 32 Volts and 250 Volts on Special Order

*Add "REVERE" for Reversible.

Standard Equipment: 3-Jaw Key Chuck. 3-Conductor Cable and Plug. Spade Handle and Dead Handle on No. 881 only.

Optional Equipment: No. 1 Morse Taper Socket in place of Chuck. Wood Bit Chuck for 1/2" round shanks in place of key chuck. Furnished with Reversing Switch at extra charge. Optional speed of 500 R. P. M. Free—300 R. P. M. Loaded, specify Size No. 880-500, 881-500 or 882-500.

CHICAGO PNEUMATIC TOOL COMPANY

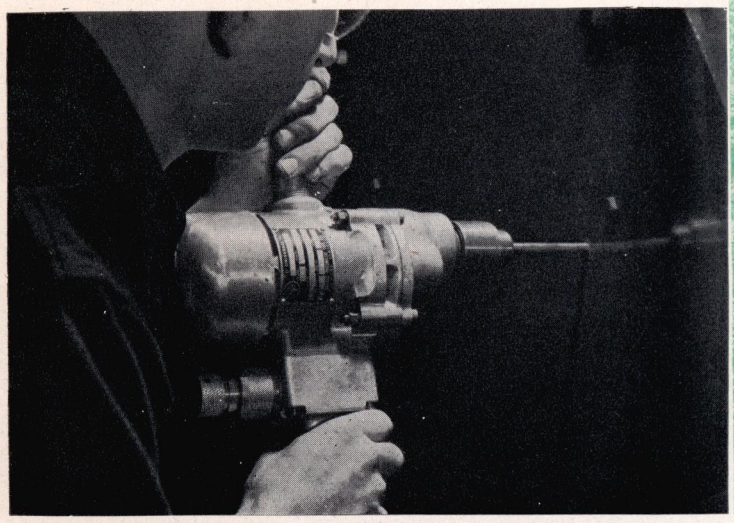
HEAVY DUTY

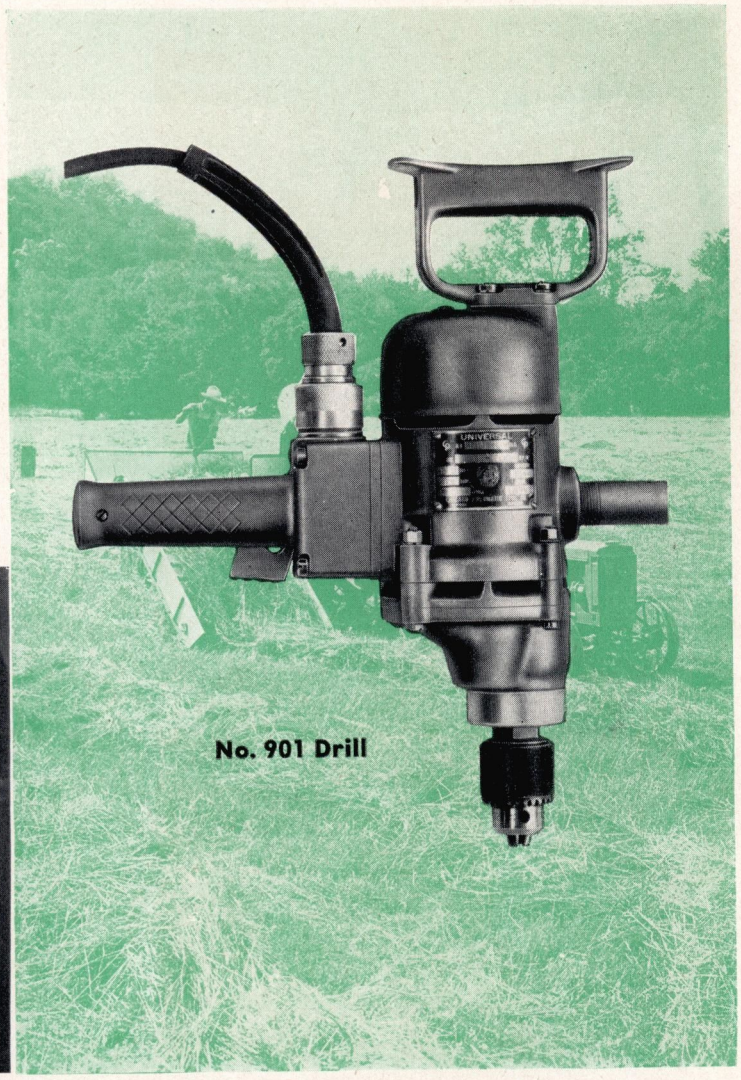
UNIVERSAL

3/8 INCH DRILLS

APPLICATIONS:

No. 901 Drill is adapted for continuous work in production plants where operations call for drilling a large number of 3/8" holes, and where the spindle speed of the larger drills is too slow for such operations.





No. 901 Drill

SPECIFICATIONS

Size No.	CAPACITY		SPEED R. P. M.		Net Weight	Overall Length	Spindle Offset	*CODE WORD	
	Metal	Wood	Free	Loaded				110V	220V
901-900	3/8"	3/4"	900	575	14 lbs.	15 1/8"	1 9/32"	UNIVC	UNIVD

Can be furnished for 32 Volts and 250 Volts on Special Order

*Add "REVER" for Reversible.

Standard Equipment: 3-Jaw Key Chuck. 3-Conductor Cable and Plug. Spade Handle. Dead Handle.

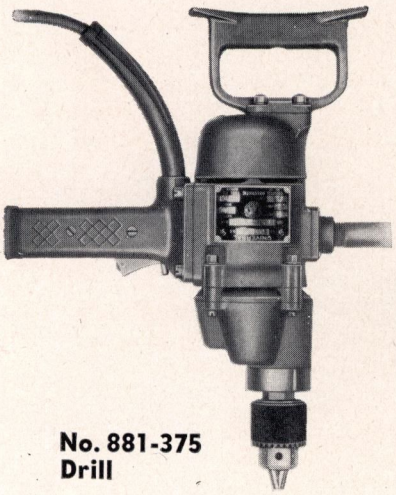
Optional Equipment: Feed Screw in place of Spade Handle. No. 1 M T Socket in place of chuck. Wood Bit Chuck for 1/2-inch round shanks in place of key chuck. Furnished with Reversing Switch at extra charge. Optional without Cable Disconnector, specify Size No. 903-900.

UNIVERSAL

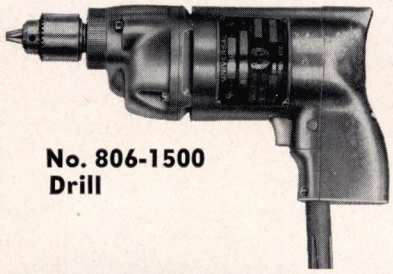
1/4-1/2 INCH DRILLS

FOR STAINLESS STEEL

Slow Speed — High Torque



No. 881-375
Drill



No. 806-1500
Drill

No. 880-375
Drill

No. 816-1000
Drill

No. 815-500
Drill

APPLICATIONS: Answer the needs for drilling stainless and new alloy steels and similar hard metals. Life of twist drills is materially increased and costly production delays are greatly reduced.

SPECIFICATIONS

Size No.	CAPACITY		SPEED R. P. M.		Net Weight	Overall Length	Spindle Offset	* CODE WORD	
	Metal	Wood	Free	Loaded				110V	220V
806-1500	1/4"	1/2"	1500	900	4 1/4 lbs.	8 7/8"	27/32"	UNAEX	UNAEY
806-1000	1/4"	1/2"	1000	600	4 1/4 lbs.	8 7/8"	27/32"	UNOFG	UNOFH
806- 750	1/4"	1/2"	750	450	4 1/4 lbs.	8 7/8"	27/32"	UNOFE	UNOFF
806- 500	1/4"	1/2"	500	300	4 1/4 lbs.	8 7/8"	27/32"	UNOFC	UNOFD
815-1000	5/16"	5/8"	1000	600	5 1/2 lbs.	9"	31/32"	UNAEZ	UNAFA
815- 750	5/16"	5/8"	750	450	5 1/2 lbs.	9"	31/32"	UNAFB	UNAFC
815- 500	5/16"	5/8"	500	300	5 1/2 lbs.	9"	31/32"	UNOAC	UNOAD
816-1000	5/16"	5/8"	1000	600	6 lbs.	12 1/4"	31/32"	UNAFD	UNAFE
816- 750	5/16"	5/8"	750	450	6 lbs.	12 1/4"	31/32"	UNAFF	UNAFG
816- 500	5/16"	5/8"	500	300	6 lbs.	12 1/4"	31/32"	UNOAE	UNOAF
880- 375	1/2"	1"	375	225	9 lbs.	14 1/8"	1 1/16"	UNOAG	UNOAH
881- 375	1/2"	1"	375	225	10 1/4 lbs.	14 1/4"	1 1/16"	UNOAI	UNOAJ

Can be furnished for 32 Volts and 250 Volts on Special Order

* Add "REVER" for Reversible.

Standard Equipment: 3-Conductor Cable and Plug. 3-Jaw Key Chuck. Spade Handle and Dead Handle on No. 881 only.

Optional Equipment: Optional speed of 500 R. P. M. free—450 R. P. M. loaded—for Nos. 880 and 881. Specify Size No. 880-500 and 881-500.

Extra Equipment: Chuck Protector Sleeve for Nos. 806, 815 and 816; Rubber Bumpers for No. 815 only.

CHICAGO PNEUMATIC TOOL COMPANY

TWO-SPEED

Simple Speed Change

UNIVERSAL

"HILO" DRILLS

No. 884 "Hilo" Drill with Pistol Grip Handle

FEATURES

This new dual speed (high-low) drill has one gear for each speed mounted on one-way clutches. The direction of rotation of motor automatically determines which gear will drive.

Speed change is made easily and quickly by means of a reversing switch in the control handle. Tool is suitable for combination drilling and reaming; chuck capacity is ½"; speeds, 1350 RPM and 375 RPM.

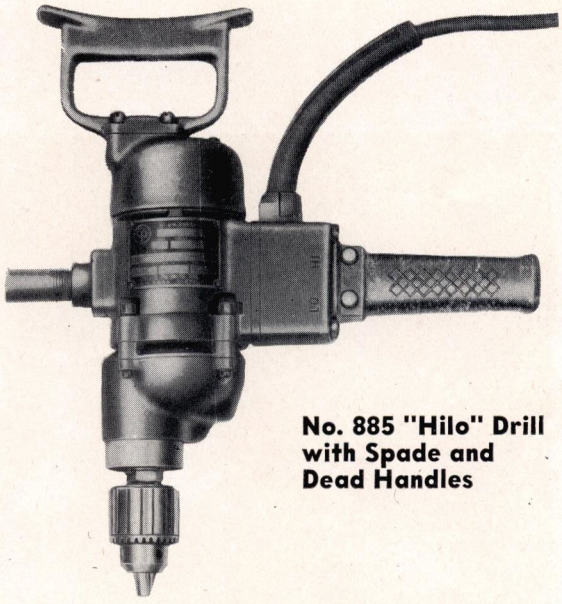
This drill has the traditional CP high-torque, high-efficiency, cool-running Universal Motor — assuring an efficient, low-maintenance, high-production tool.

APPLICATIONS:

Two-speed selection, without cumbersome, weighty gear shift mechanism makes this a real utility drill for use on any material that can be drilled.

Drills @

- **1350 RPM**
  - Steel to 5/16"
  - Cast Iron to ⅜"
  - Aluminum, Brass, Etc. to ½"
- **375 RPM**
  - Stainless Steel to 5/16"
  - Mild Steel and Cast Iron to ½"
  - With Hole Saw to 1½"
  - With Carboloy Bit in Slate, Tile, Brick, Plaster, Asbestos, Limestone and Concrete to ½"



No. 885 "Hilo" Drill with Spade and Dead Handles

SPECIFICATIONS

Size No.	SPEED R.P.M.	Net Weight	Overall Length	Spindle Offset	CODE WORDS	
					110V	220V
884	1350-375	9½ lbs.	14¼"	1 1/16"	UNOJQ	UNOJR
885	1350-375	10¾ lbs.	14⅜"	1 1/16"	UNOJS	UNOJT

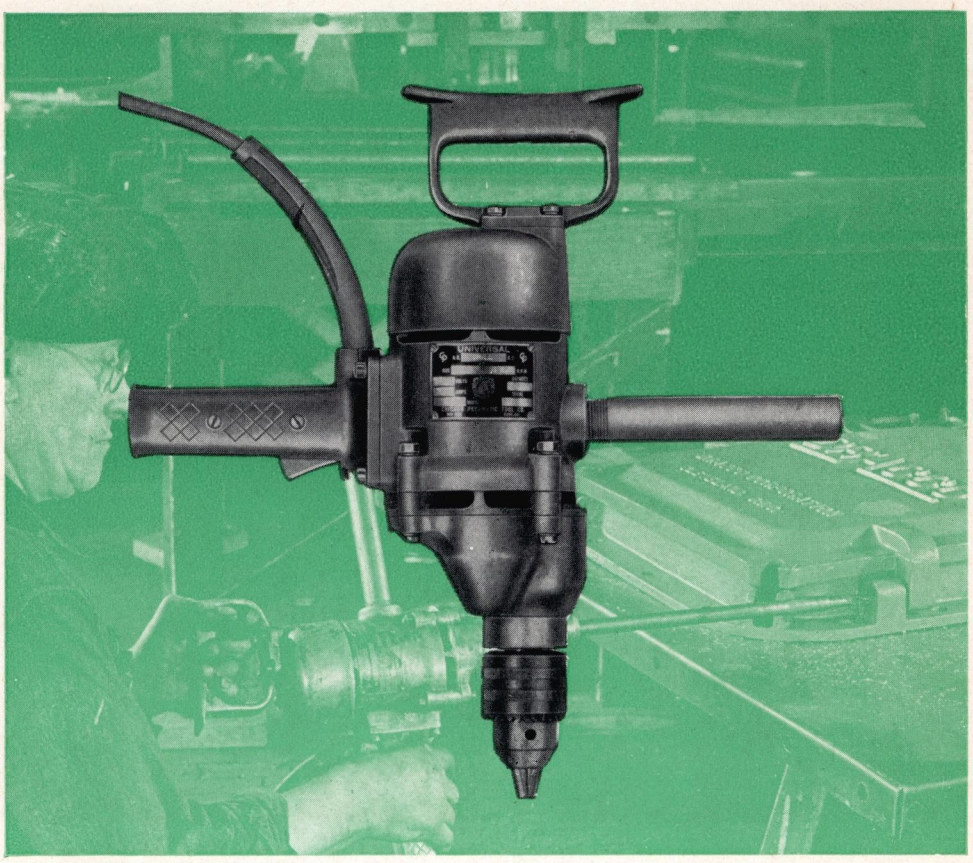
Can be furnished for 32 Volts and 250 Volts on Special Order

Standard Equipment: **3-Jaw ½" capacity Key Chuck. 3-Conductor Cable and Plug.**

UNIVERSAL

½ INCH DRILLS

STANDARD DUTY



No. 921 Drill

APPLICATIONS: No. 921 Drill is a general purpose tool for maintenance, repair and light production work. Especially suited for millwrights, contractors, etc.

SPECIFICATIONS

Size No.	CAPACITY		SPEED R. P. M.		Net Weight	Overall Length	Spindle Offset	*CODE WORD	
	Metal	Wood	Free	Loaded				110V	220V
921-450	½"	1"	450	285	14 lbs.	15⅝"	1 13/32"	UNIVA	UNIVB

Can be furnished for 32 Volts and 250 Volts on Special Order

*Add "REVER" for Reversible.

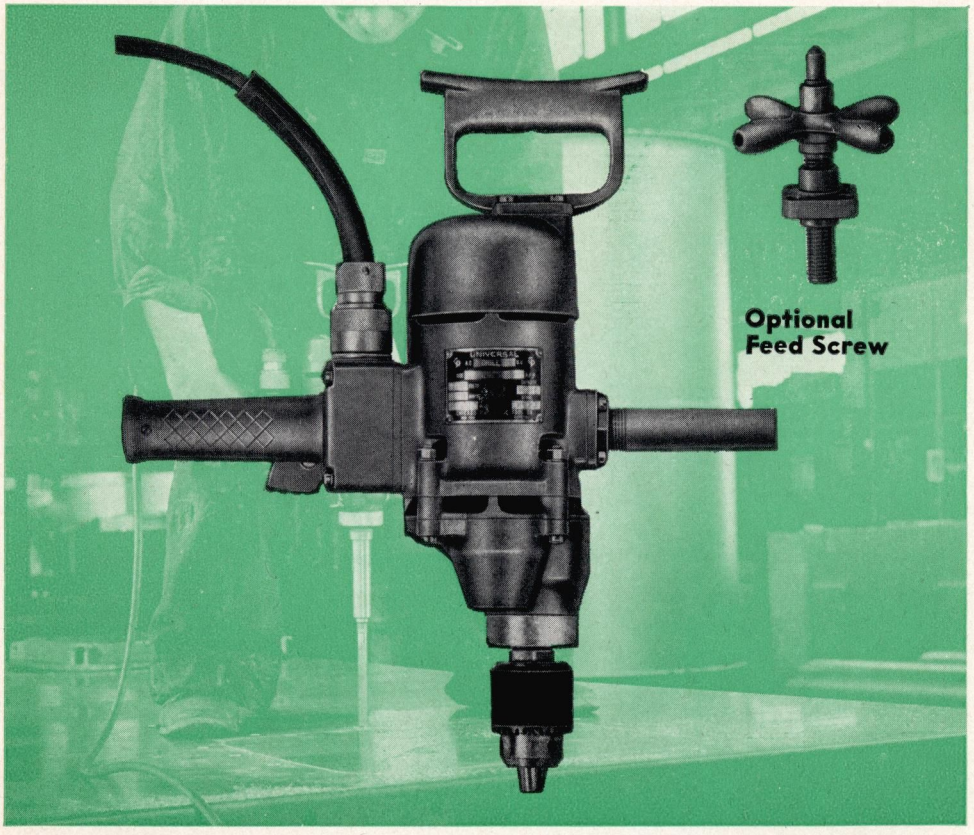
Standard Equipment: 3-Jaw Key Chuck. 3-Conductor Cable and Plug. Spade Handle. Dead Handle.

Optional Equipment: Furnished with Reversing Switch at extra charge.

CHICAGO PNEUMATIC TOOL COMPANY

UNIVERSAL

½ INCH DRILLS



No. 935 Drill

APPLICATIONS: No. 935 Drill is a powerful, sturdy tool for heavy construction, repair and production work. A heavy duty drill for the most severe operations for continuous ½-inch production drilling. (Should not be confused with lower priced, intermittent duty models of the same rated capacity.)

SPECIFICATIONS

Size No.	CAPACITY		SPEED R. P. M.		Net Weight	Overall Length	Spindle Offset	*CODE WORD	
	Metal	Wood	Free	Loaded				110V	220V
935-550	½"	1"	550	340	17 lbs.	16¾"	1 13/32"	UNIVG	UNIVH

Can be furnished for 32 Volts and 250 Volts on Special Order

*Add "REVER" for Reversible.

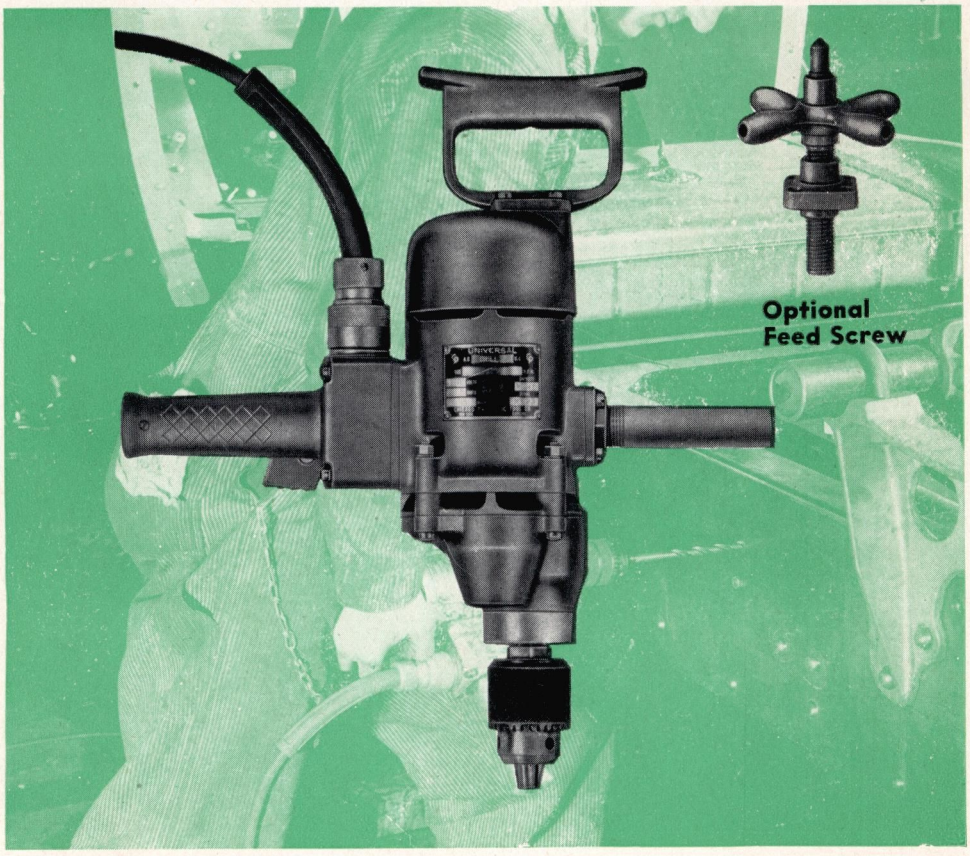
Standard Equipment: 3-Jaw Key Chuck. 3-Conductor Cable and Plug. Spade Handle. Dead Handle.

Optional Equipment: Feed Screw in place of Spade Handle. No. 1 or No. 2 M T Socket in place of chuck. Wood Bit Chuck for ½-inch round shanks in place of key chuck. Furnished with Reversing Switch at extra charge. Optional without Cable Disconnecter, specify Size No. 937-550.

UNIVERSAL

5/8 INCH DRILLS

STANDARD DUTY



No. 945 Drill

APPLICATIONS: No. 945 Drill is a general all-around drill for machine shop drilling and general maintenance up to its capacity.

SPECIFICATIONS

Size No.	CAPACITY		SPEED R. P. M.		Net Weight	Overall Length	Spindle Offset	*CODE WORD	
	Metal	Wood	Free	Loaded				110V	220V
945-550	5/8"	1¼"	550	340	17½ lbs.	16¾"	1 13/32"	UNIVE	UNIVF

Can be furnished for 32 Volts and 250 Volts on Special Order

*Add "REVER" for Reversible.

Standard Equipment: 3-Jaw Key Chuck. 3-Conductor Cable and Plug. Spade Handle. Dead Handle.

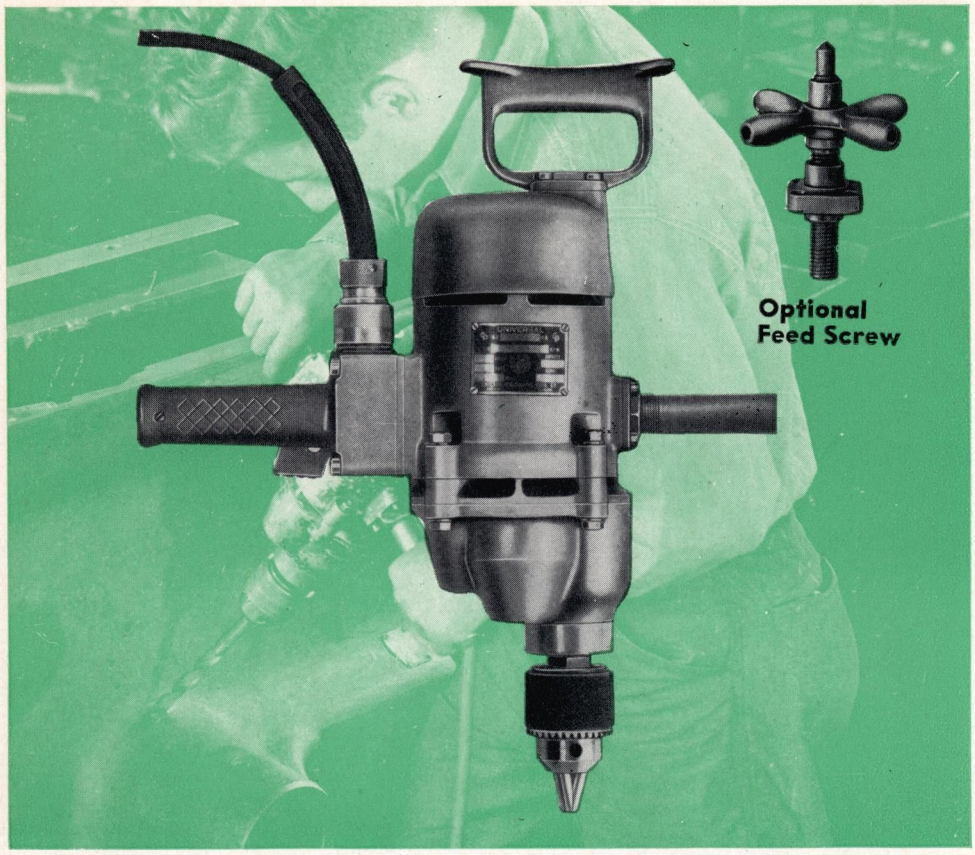
Optional Equipment: Feed Screw in place of Spade Handle. No. 1 or No. 2 M T Socket in place of chuck. Wood Bit Chuck for ½-inch round shanks in place of key chuck. Furnished with Reversing Switch at extra charge. Optional without Cable Disconnector, specify Size No. 947-550.

CHICAGO PNEUMATIC TOOL COMPANY

HEAVY DUTY

UNIVERSAL

5/8 INCH DRILLS



No. 955 Drill

APPLICATIONS: No. 955 Drill is a powerful, sturdy tool for heavy duty wood and metal drilling, reaming and countersinking in construction, truck, railway, automobile and heavy durable goods industries. A heavy duty drill that can be used on the most severe production work. (Should not be confused with lower priced, intermittent duty models of the same rated capacity.)

SPECIFICATIONS

Size No.	CAPACITY			SPEED R. P. M.		Net Weight	Overall Length	Spindle Offset	*CODE WORD	
	Drilling		Reaming Metal	Free	Loaded				110V	220V
	Metal	Wood								
955-450	5/8"	1 1/4"	7/16"	450	260	24 7/8 lbs.	17 7/8"	1 5/8"	UNILY	UNIMZ

Can be furnished for 32 Volts and 250 Volts on Special Order

*Add "REVER" for Reversible.

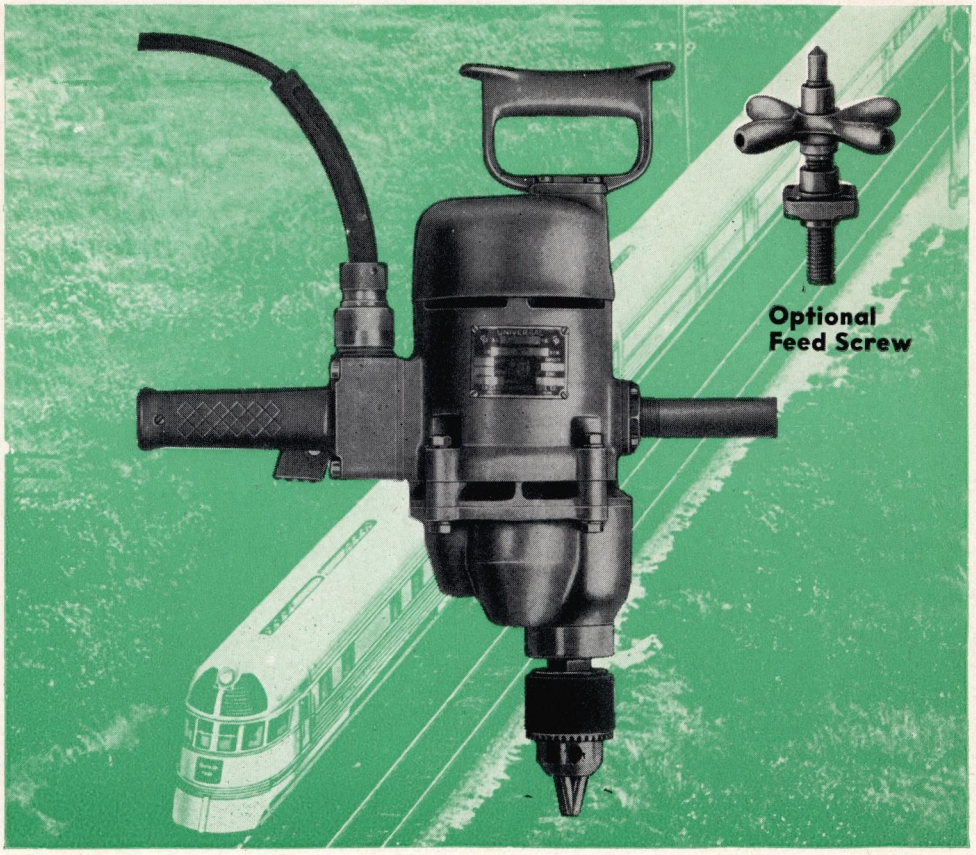
Standard Equipment: 3-Jaw Key Chuck. 3-Conductor Cable and Plug. Spade Handle. Dead Handle.

Optional Equipment: Feed Screw in place of Spade Handle. No. 2 Morse Taper Socket in place of chuck. Wood Bit Chuck for ½-inch round shanks in place of key chuck. Furnished with Reversing Switch at extra charge. Optional without Cable Disconnector, specify Size No. 957-450. Optional speed of 300 R. P. M. Free—175 R. P. M. Loaded, specify Size No. 955-300.

UNIVERSAL

3/4 INCH DRILLS

STANDARD DUTY



No. 961 Drill

APPLICATIONS: No. 961 Drill is a light weight machine with ample power for production drilling in all metals, wood, fibre, etc. It is especially adapted for wood-boring with auger bits.

SPECIFICATIONS

Size No.	CAPACITY Drilling		SPEED R. P. M.		Net Weight	Overall Length	Spindle Offset	*CODE WORD	
	Metal	Wood	Free	Loaded				110V	220V
961-300	¾"	1½"	300	180	25⅝ lbs.	18¼"	1⅝"	UNIZA	UNIZO

Can be furnished for 32 Volts and 250 Volts on Special Order

*Add "REVER" for Reversible.

Standard Equipment: 3-Jaw Key Chuck. 3-Conductor Cable and Plug. Spade Handle. Dead Handle.

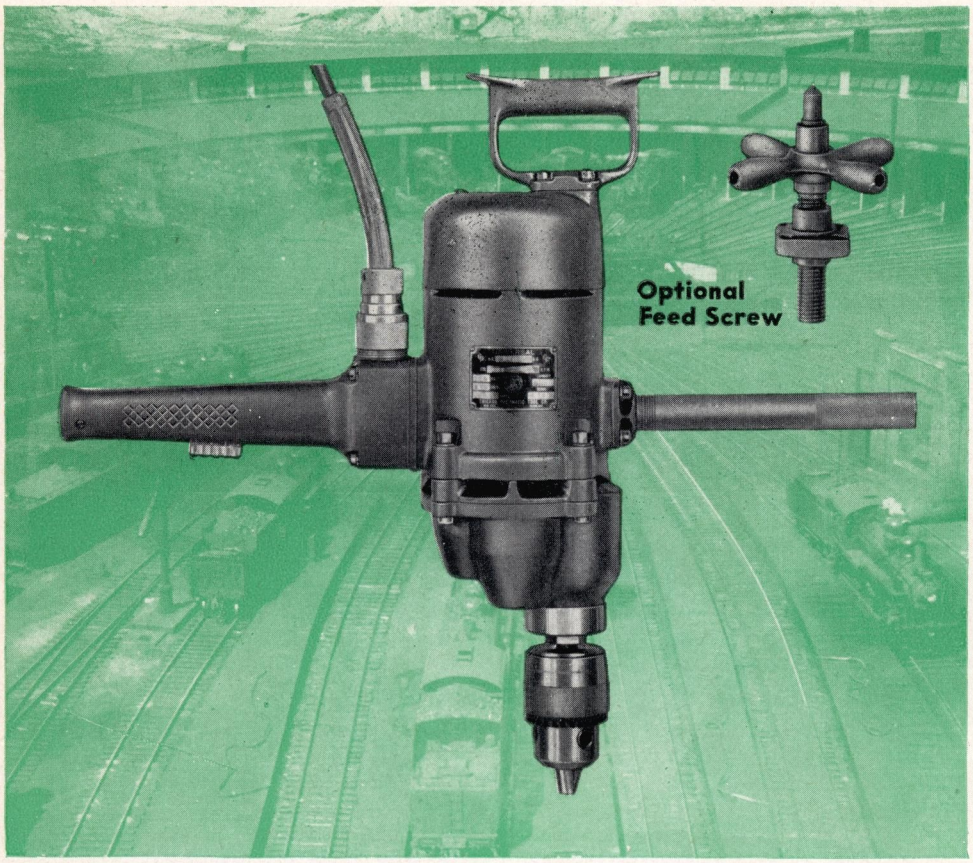
Optional Equipment: Feed Screw in place of Spade Handle. No. 2 Morse Taper Socket in place of chuck. Wood Bit Chuck for ½-inch round shanks in place of key chuck. Furnished with Reversing Switch at extra charge. Optional without Cable Disconnector, specify Size No. 963-300. Optional speed of 450 R. P. M. Free—260 R. P. M. Loaded, specify size No. 961-450.

CHICAGO PNEUMATIC TOOL COMPANY

HEAVY DUTY

UNIVERSAL

3/4 INCH DRILLS



No. 965 Drill

APPLICATIONS: No. 965 Drill is a powerful, sturdy tool for heavy duty wood and metal drilling, reaming and countersinking in construction, truck, railway, automobile and heavy durable goods industries. A heavy duty drill that can be used on the most severe production work. (Should not be confused with lower priced, intermittent duty models of the same rated capacity.)

SPECIFICATIONS

Size No.	CAPACITY			SPEED R. P. M.		Net Weight	Overall Length	Spindle Offset	*CODE WORD	
	Drilling		Reaming Metal	Free	Loaded				110V	220V
	Metal	Wood								
965-450	¾"	1½"	9/16"	450	270	28½ lbs.	18⅞"	1⅝"	UNIZI	UNIZU

Can be furnished for 32 Volts and 250 Volts on Special Order

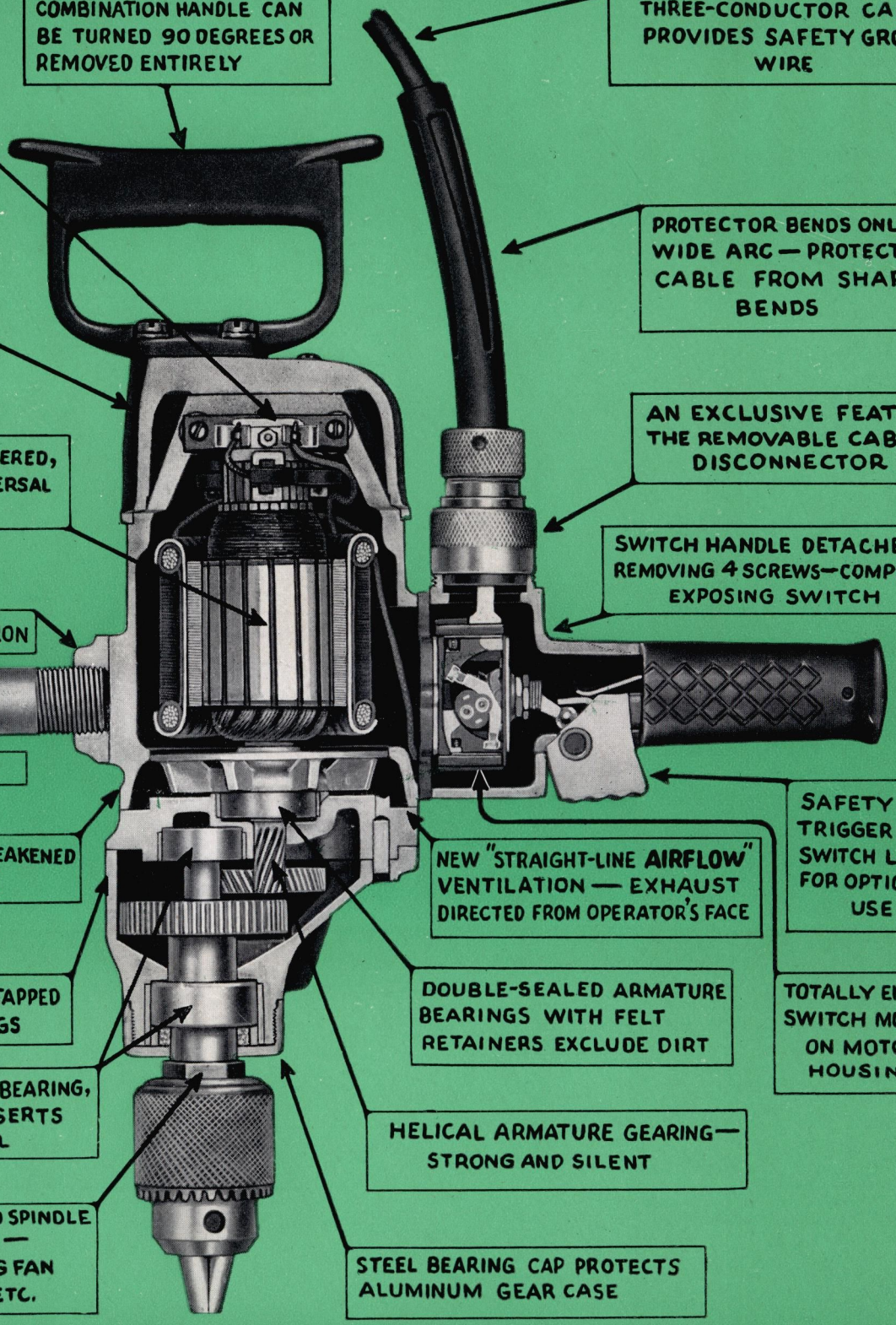
*Add "REVER" for Reversible.

Standard Equipment: 3-Jaw Key Chuck. 3-Conductor Cable and Plug. Spade Handle. Dead Handle.

Optional Equipment: Feed Screw in place of Spade Handle. No. 2 Morse Taper Socket in place of chuck. Wood Bit Chuck for ½-inch round shanks in place of key chuck. Furnished with Reversing Switch at extra charge. Optional without Cable Disconnector, specify Size No. 967-450. Optional speed of 300 R. P. M. Free—180 R. P. M. Loaded, specify Size No. 965-300. Optional speed of 1500 R. P. M. Free—900 R. P. M. Loaded, specify Size No. 965-1500.

TYPICAL CONSTRUCTION SIDE HANDLE DRILLS

UNIVERSAL HEAVY DUTY

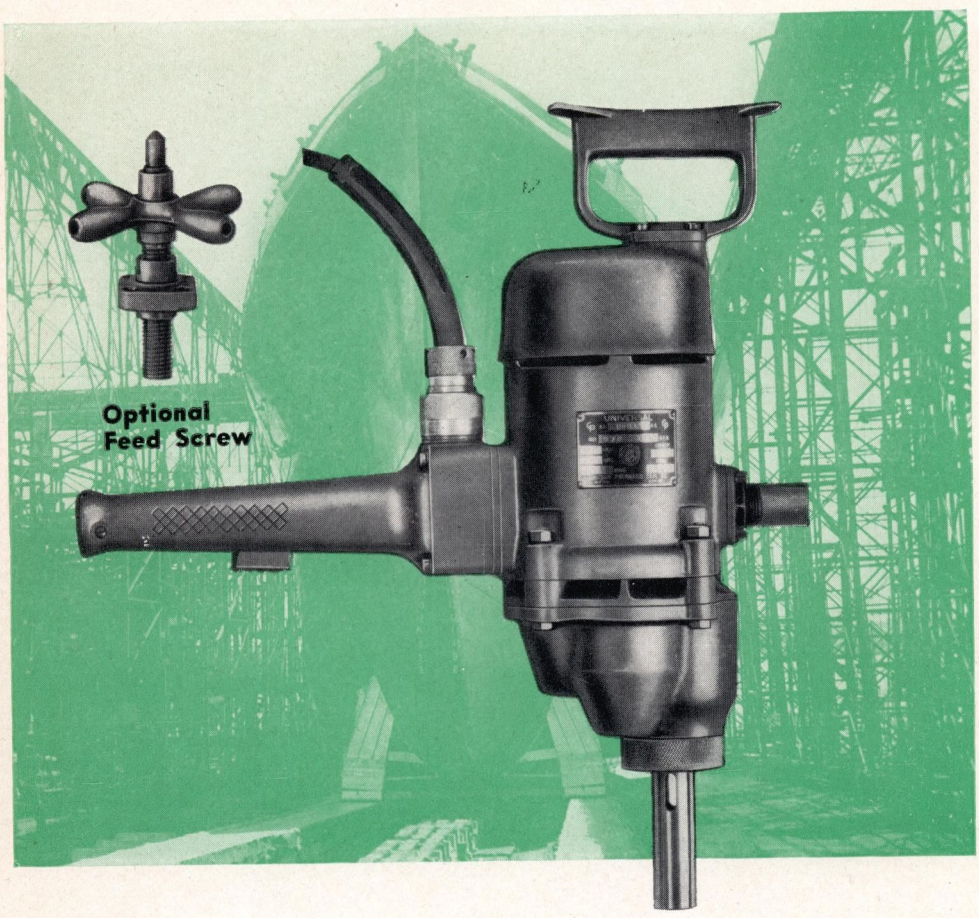

SHUNTED BRUSHES AND BOX TYPE BRUSH HOLDERS MOUNTED ON VARNISHED FIBRE BLOCKS
COMBINATION HANDLE CAN BE TURNED 90 DEGREES OR REMOVED ENTIRELY
THREE-CONDUCTOR CABLE PROVIDES SAFETY GROUND WIRE
REMOVABLE CAP AND HANDLE PROVIDES EASY ACCESS TO RUNNING MOTOR
PROTECTOR BENDS ONLY IN WIDE ARC — PROTECTING CABLE FROM SHARP BENDS
AN EXCLUSIVE FEATURE— THE REMOVABLE CABLE DISCONNECTOR
HIGH TORQUE, HIGH POWERED, COOL RUNNING CP UNIVERSAL MOTOR
SWITCH HANDLE DETACHED BY REMOVING 4 SCREWS—COMPLETELY EXPOSING SWITCH
REMOVABLE MALLEABLE IRON DEAD HANDLE ADAPTOR — DEAD HANDLE NOT SCREWED IN ALUMINUM HOUSING
SAFETY TYPE TRIGGER WITH SWITCH LOCK FOR OPTIONAL USE
FLARED HOUSING—NOT WEAKENED BY DRILLED VENT HOLES
NEW "STRAIGHT-LINE AIRFLOW" VENTILATION — EXHAUST DIRECTED FROM OPERATOR'S FACE
THRU BOLTS— NO HOLES TAPPED IN ALUMINUM CASTINGS
DOUBLE-SEALED ARMATURE BEARINGS WITH FELT RETAINERS EXCLUDE DIRT
TOTALLY ENCLOSED SWITCH MOUNTED ON MOTOR HOUSING
EVERY BEARING A BALL BEARING, MOUNTED IN STEEL INSERTS CAST INTEGRAL
HELICAL ARMATURE GEARING— STRONG AND SILENT
HEX TO HOLD THREADED SPINDLE IN REMOVING CHUCK — ELIMINATES LOCKING FAN WITH NAILS, WIRES, ETC.
STEEL BEARING CAP PROTECTS ALUMINUM GEAR CASE

CHICAGO PNEUMATIC TOOL COMPANY

HEAVY DUTY

UNIVERSAL

7/8 INCH DRILLS



No. 971 Drill

APPLICATIONS: No. 971 Drill is a ruggedly constructed powerful machine for heavy duty drilling, woodboring, reaming and countersinking for heavy construction, bridge repair, shipbuilding and the heavy durable goods industries.

SPECIFICATIONS

Size No.	CAPACITY			SPEED R.P.M.		Net Weight	Overall Length	Spindle Offset	*CODE WORD	
	Drilling		Reaming Metal	Free	Loaded				110V	220V
	Metal	Wood								
971-375	7/8"	1¾"	9/16"	375	225	26⅝ lbs.	19¼"	1⅝"	UNINB	UNIOC

Can be furnished for 32 Volts and 250 Volts on Special Order

*Add "REVER" for Reversible.

Standard Equipment: No. 3 Morse Taper Spindle. Spade Handle. Dead Handle. 3-Conductor Cable and Plug.

Optional Equipment: Feed Screw in place of Spade Handle. No. 2 Morse Taper Spindle or Wood Bit Chuck with No. 3 Morse Taper Shank for ½" round shanks. Optional, without Cable Disconnector, specify size No. 973-375. Furnished with Reversing Switch at extra charge.

UNIVERSAL

1 INCH DRILLS

HEAVY DUTY

No. 985 Drill

APPLICATIONS: No. 985 Drill is a sturdily constructed powerful tool for heavy duty drilling, woodboring, reaming and countersinking for heavy construction, bridge repair, shipbuilding, steel erectors and the heavy durable goods industries.

Size No.	CAPACITY			SPEED R.P.M.		Net Weight	Overall Length	Spindle Offset	*CODE WORD	
	Drilling		Reaming Metal	Free	Loaded				110V	220V
	Metal	Wood								
985-300	1"	2"	11/16"	300	180	27¼ lbs.	20⅛"	1⅝"	UNIPR	UNIQE

Can be furnished for 32 Volts and 250 Volts on Special Order

*Add "REVER" for Reversible.

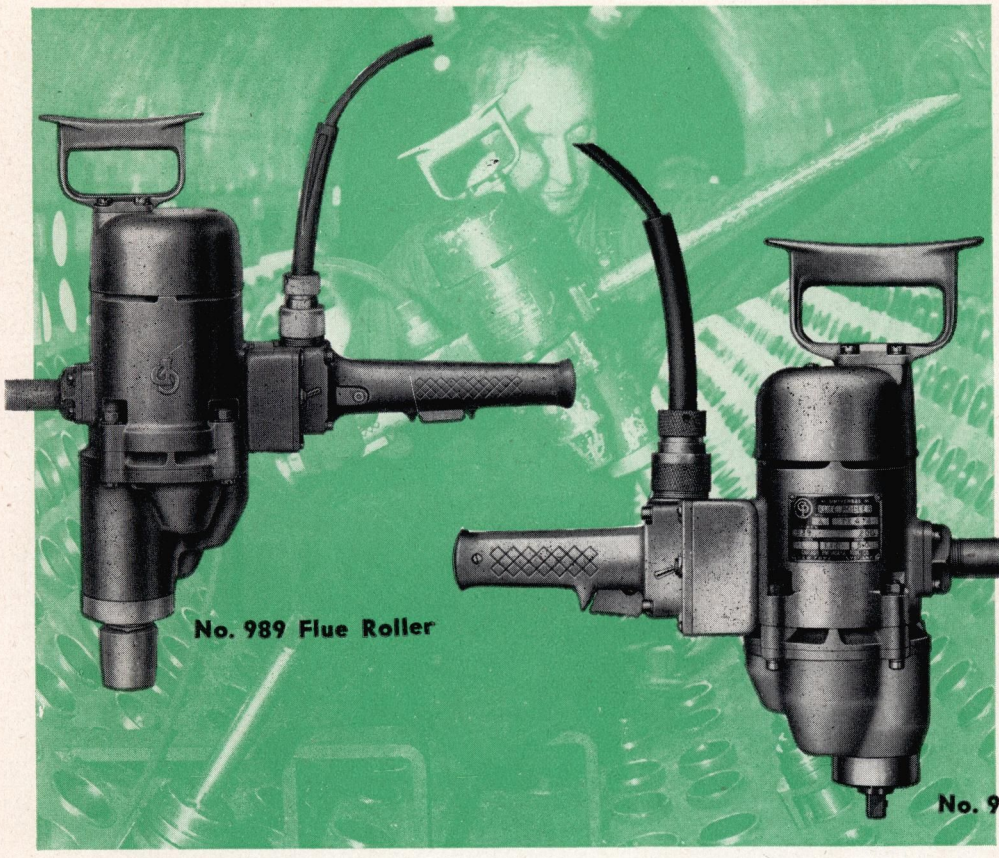
Standard Equipment: No. 3 Morse Taper Spindle. Spade Handle. Dead Handle. 3-Conductor Cable and Plug.

Optional Equipment: Feed Screw in place of Spade Handle. Wood Bit Chuck with No. 3 Morse Taper Shank for ½" round shanks. Optional, without Cable Disconnector, specify Size No. 987-300. Furnished with Reversing Switch at extra charge. Optional speed of 375 R. P. M. Free—225 R. P. M. Loaded, specify Size No. 985-375.

CHICAGO PNEUMATIC TOOL COMPANY

UNIVERSAL

FLUE ROLLERS



No. 989 Flue Roller

No. 939 Flue Roller

APPLICATIONS: Indispensable to Boiler Manufacturers, as well as Boiler Installation and Service Companies specializing in repairs and service to boilers; also manufacturers and erectors of heat transfer equipment . . . because of accurate, uniform work, speed, and saving in time and labor. *As overall length is often an important factor, note that by removing spade handle the overall length can be reduced considerably.*

Size No.	CAPACITY		SPEED R.P.M.		Net Weight	Overall Length	Spindle Offset	CODE WORD	
	Flue Rolling	Reaming Metal	Free	Loaded				110V	220V
939-200	1½" Max.	....	200	120	17½ lbs.	14½"	1½"	UNOKA	UNOKB
989- 90	4" Max.	15/16"	90	55	31½ lbs.	19⅝"	1⅝"	UNOCA	UNOCB
989-150	3" Max.	⅞"	150	90	31½ lbs.	19⅝"	1⅝"	UNOGC	UNOGD
989-200	2" Max.	13/16"	200	120	31½ lbs.	19⅝"	1⅝"	UNOGE	UNOGF

Can be furnished for 32 Volts and 250 Volts on Special Order

Standard Equipment: No. 939: ½" Square Drive Spindle to take sockets with ½" square drive. 3-Conductor Cable and Plug. Spade Handle. No. 989: Special spindle with 1" square drive to accommodate sockets with 1" square drive. Spade Handle. Dead Handle 36" long of ¾" Double Extra Heavy Pipe. 3-Conductor Cable and Plug.

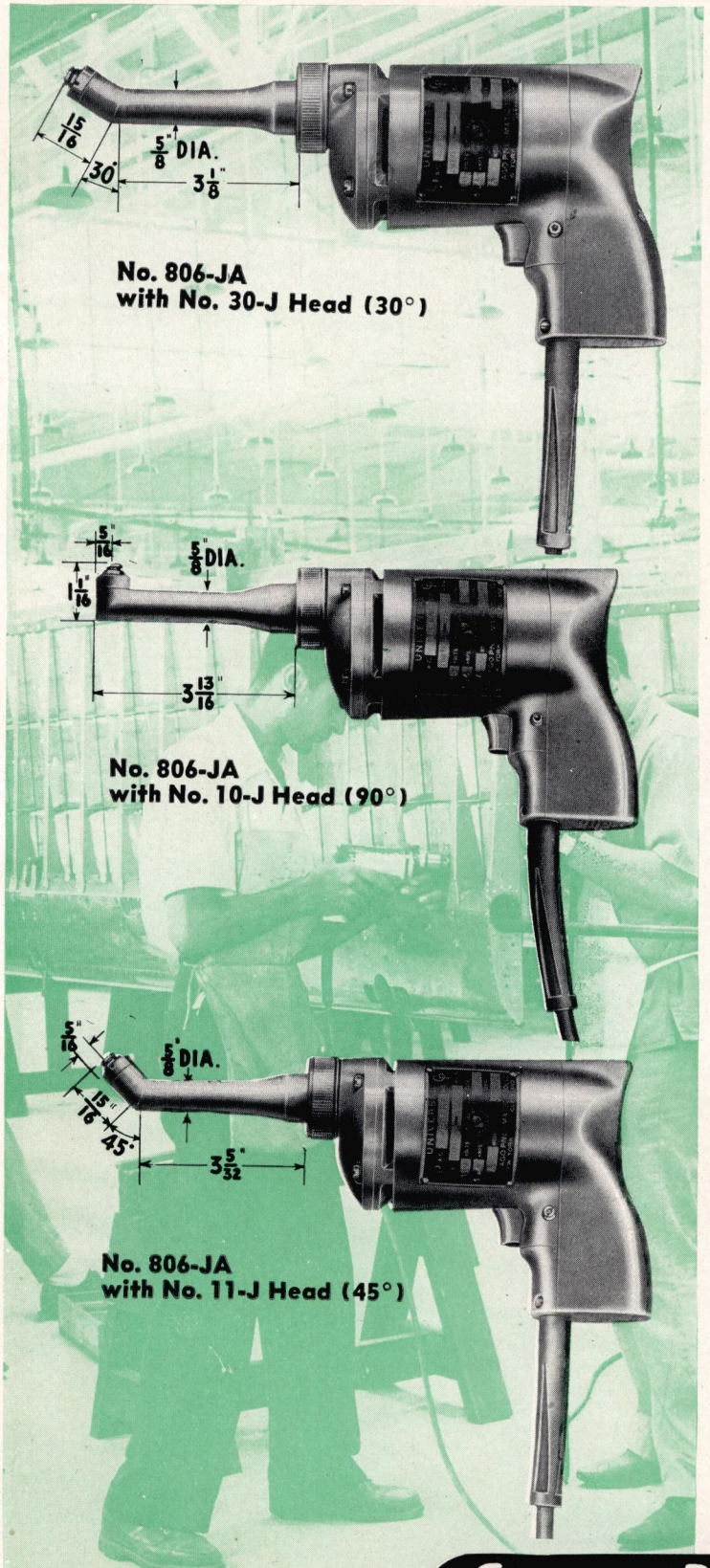
Extra Equipment: No. 989: C-39831—¾" Square Socket with 1" square drive. C-39742—⅞" Square Socket with 1" square drive or C-39499—1" Square Socket with 1" square drive as selected.

Optional Equipment: No. 939: No. 3 Morse Taper Spindle in place of ½" Sq. Drive Spindle. 250 or 300 R. P. M. gearing. No. 989: No. 4 Morse Taper Spindle in place of S-68046 Special Spindle with 1" square drive.

UNIVERSAL

ANGLE DRILLS

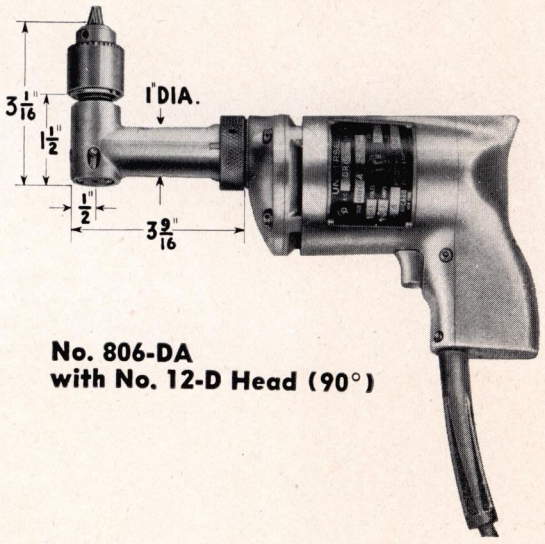
3/16 TO 3/8 INCH



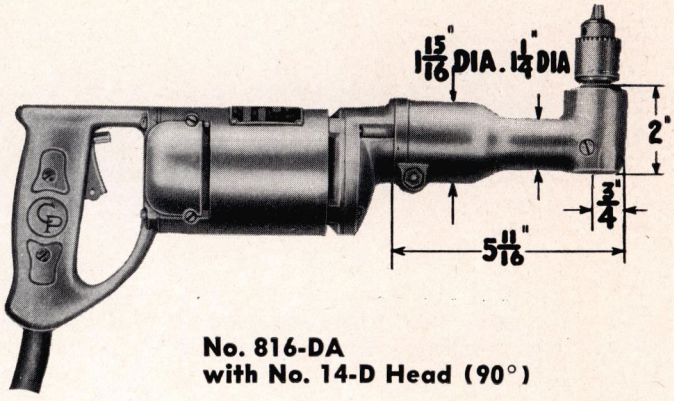
No. 806-JA
with No. 30-J Head (30°)

No. 806-JA
with No. 10-J Head (90°)

No. 806-JA
with No. 11-J Head (45°)



No. 806-DA
with No. 12-D Head (90°)

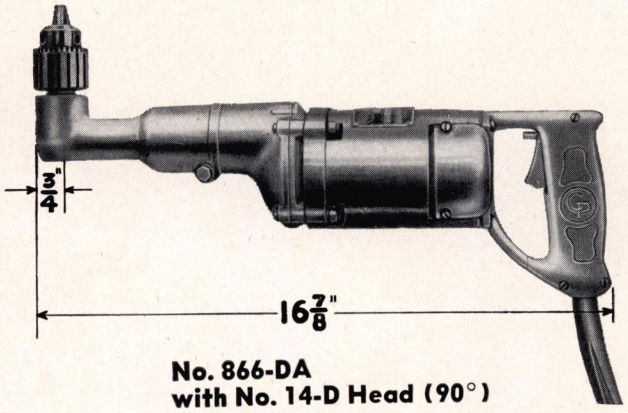


No. 816-DA
with No. 14-D Head (90°)

APPLICATIONS: CP Engineers have designed hundreds of special Right Angle Head Attachments for successfully solving special problems of drilling arising from unusual conditions. The tools shown here are typical of those especially designed for the airplane industry. Because many of these are generally adaptable to a wide range of conditions, they have become more or less standardized. For detailed specifications and dimensional drawings, send for Special Publication No. 1944.

CHICAGO PNEUMATIC TOOL COMPANY

UNIVERSAL ANGLE DRILLS



No. 866-DA
with No. 14-D Head (90°)

SPECIFICATIONS

Size No.	CAPACITY Drilling Metal	CAPACITY Drilling Wood	SPEED R.P.M. Free	SPEED R.P.M. Loaded	Net Weight	Overall Length	Angle Head Spindle Offset	Angle Head No.	*CODE WORD 110V	*CODE WORD 220V
806JA-5200	3/16"	3/16"	5200	3100	3 5/16 lbs.	10 1/2"	5/16"	10J-90°	UNOHB	UNOHC
806JA-3500	1/4"	1/4"	3500	2100	3 5/16 lbs.	10 1/2"	5/16"	10J-90°	UNOHD	UNOHE
806JA-2500	1/4"	1/4"	2500	1800	3 5/16 lbs.	10 1/2"	5/16"	10J-90°	UNOHG	UNOHH
806JA-5200	3/16"	3/16"	5200	3100	3 5/16 lbs.	10 1/2"	5/16"	11J-45°	UNOHI	UNOHJ
806JA-3500	1/4"	1/4"	3500	2100	3 5/16 lbs.	10 1/2"	5/16"	11J-45°	UNOHK	UNOHL
806JA-2500	1/4"	1/4"	2500	1800	3 5/16 lbs.	10 1/2"	5/16"	11J-45°	UNOHM	UNOHN
806JA-5200	3/16"	3/16"	5200	3100	3 5/16 lbs.	10 5/8"	5/16"	30J-30°	UNAFH	UNAFI
806JA-3500	1/4"	1/4"	3500	2100	3 5/16 lbs.	10 5/8"	5/16"	30J-30°	UNAFS	UNAFK
806JA-2500	1/4"	1/4"	2500	1800	3 5/16 lbs.	10 5/8"	5/16"	30J-30°	UNAFL	UNAFM
806DA-3750	1/4"	1/4"	3750	2250	4 1/2 lbs.	9 1/2"	1/2"	12D-90°	UNOHO	UNOHP
806DA-2600	1/4"	1/4"	2600	1600	4 1/2 lbs.	9 1/2"	1/2"	12D-90°	UNOHR	UNOHS
806DA-1875	1/4"	1/4"	1875	1150	4 1/2 lbs.	9 1/2"	1/2"	12D-90°	UNOHT	UNOHU
806DA-1125	1/4"	1/4"	1125	675	5 1/2 lbs.	10 3/4"	1/2"	12D-90°	UNAFN	UNAFO
806DA-750	1/4"	1/4"	750	450	5 1/2 lbs.	10 3/4"	1/2"	12D-90°	UNAFP	UNAFQ
806DA-560	1/4"	1/4"	560	335	5 1/2 lbs.	10 3/4"	1/2"	12D-90°	UNAFR	UNAFS
806DA-375	1/4"	1/4"	375	230	5 1/2 lbs.	10 3/4"	1/2"	12D-90°	UNAFU	UNAFV
816DA-3000	1/4"	1/4"	3000	1800	7 3/4 lbs.	15"	3/4"	14D-90°	UNOHV	UNOHW
816DA-2500	1/4"	1/4"	2500	1500	7 3/4 lbs.	15"	3/4"	14D-90°	UNOHX	UNOHY
816DA-1850	1/4"	1/4"	1850	1100	7 3/4 lbs.	15"	3/4"	14D-90°	UNAFW	UNAFX
866DA-1250	5/16"	5/8"	1250	750	10 1/2 lbs.	16 7/8"	3/4"	14D-90°	UNAFY	UNAFZ
866DA-950	5/16"	5/8"	950	575	10 1/2 lbs.	16 7/8"	3/4"	14D-90°	UNAGA	UNAGB
866DA-650	5/16"	5/8"	650	400	10 1/2 lbs.	16 7/8"	3/4"	14D-90°	UNAGC	UNAGD
880DA-750	3/8"	3/4"	750	450	11 7/8 lbs.	16 7/8"	3/4"	14D-90°	UNAGE	UNAGF
880DA-500	3/8"	3/4"	500	300	11 7/8 lbs.	16 7/8"	3/4"	14D-90°	UNAGG	UNAGH
880DA-375	3/8"	3/4"	375	225	11 7/8 lbs.	16 7/8"	3/4"	14D-90°	UNAGI	UNAGJ
880DA-250	3/8"	3/4"	250	150	11 7/8 lbs.	16 7/8"	3/4"	14D-90°	UNAGK	UNAGL
880DA-190	3/8"	3/4"	190	115	11 7/8 lbs.	16 7/8"	3/4"	14D-90°	UNAGM	UNAGN

Can be furnished for 32 Volts and 250 Volts on Special Order

*Add "REVER" for Reversible.

Standard Equipment: 3-Conductor Cable and Plug. For No. 860JA, one collet as specified (Min. Diam. hole, 1/16", Max. Diam., 3/16") and Collet Wrenches. For No. 806DA, 816DA, 866DA and 880DA, 3-Jaw Key Chuck.

Optional Equipment: For No. 806JA, 3/16" capacity 3-Jaw Key Chuck in place of Collet (Specify Angle Head No.); for No. 806DA, 1/4" capacity Jacobs Collet.

UNIVERSAL 360° ANGLE HEAD

FOR CLOSE-QUARTER WORK

No. 806 Drill Equipped with 360° Universal Angle Head

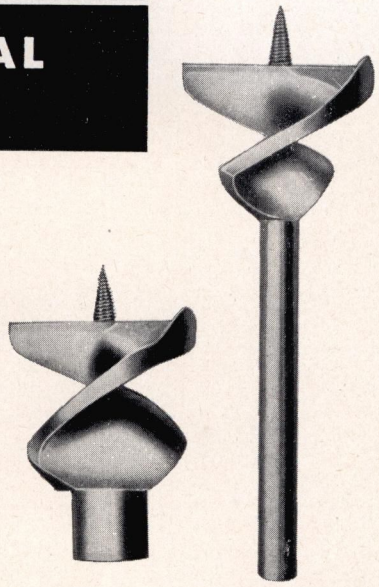
APPLICATIONS: For special aircraft work. Will drill at any angle in any plane—through all 360° of the circle. Eliminates need for special 30, 45 and 60 degree angle drills. Double swivel permits adjustment at two joints, insuring complete flexibility. Ideal for use in restricted places. Fingers can be held close to point of application, for more accurate direction of tool.

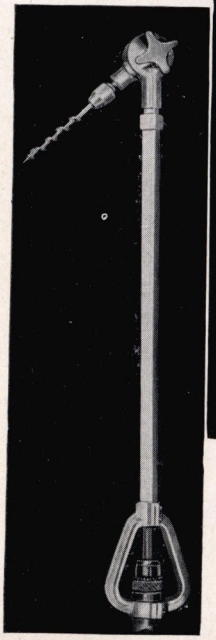
UNIVERSAL DRILLING ATTACHMENTS . . . . . .

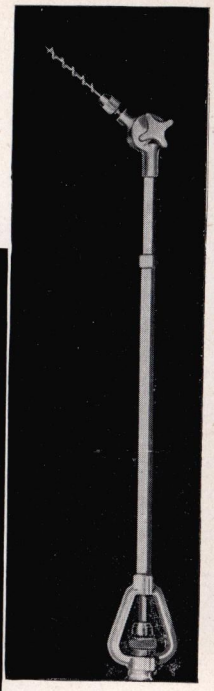
APPLICATIONS: Can be attached to drill in three minutes. Light weight, carefully balanced. For electricians, plumbers, steamfitters and maintenance men. Holes up to 1¼" can be drilled at any angle through joists only 8 inches apart. Will drill all holes in line and thus eliminate necessity of feeding wire through each hole separately.

UNIVERSAL BITS

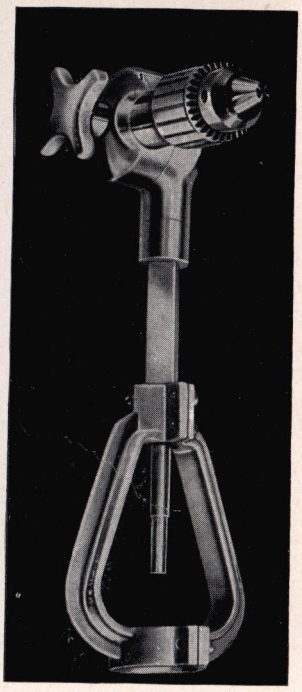
Specially designed for mechanics. Bit at right is for boring in restricted spaces. Bit at far right is for use in Jacobs Chuck of Attachment KU-2. Permit boring 3-inch holes as easily as 1½" holes without this type bit.







KU-1—For drilling wood. Top view shows telescopic extension.



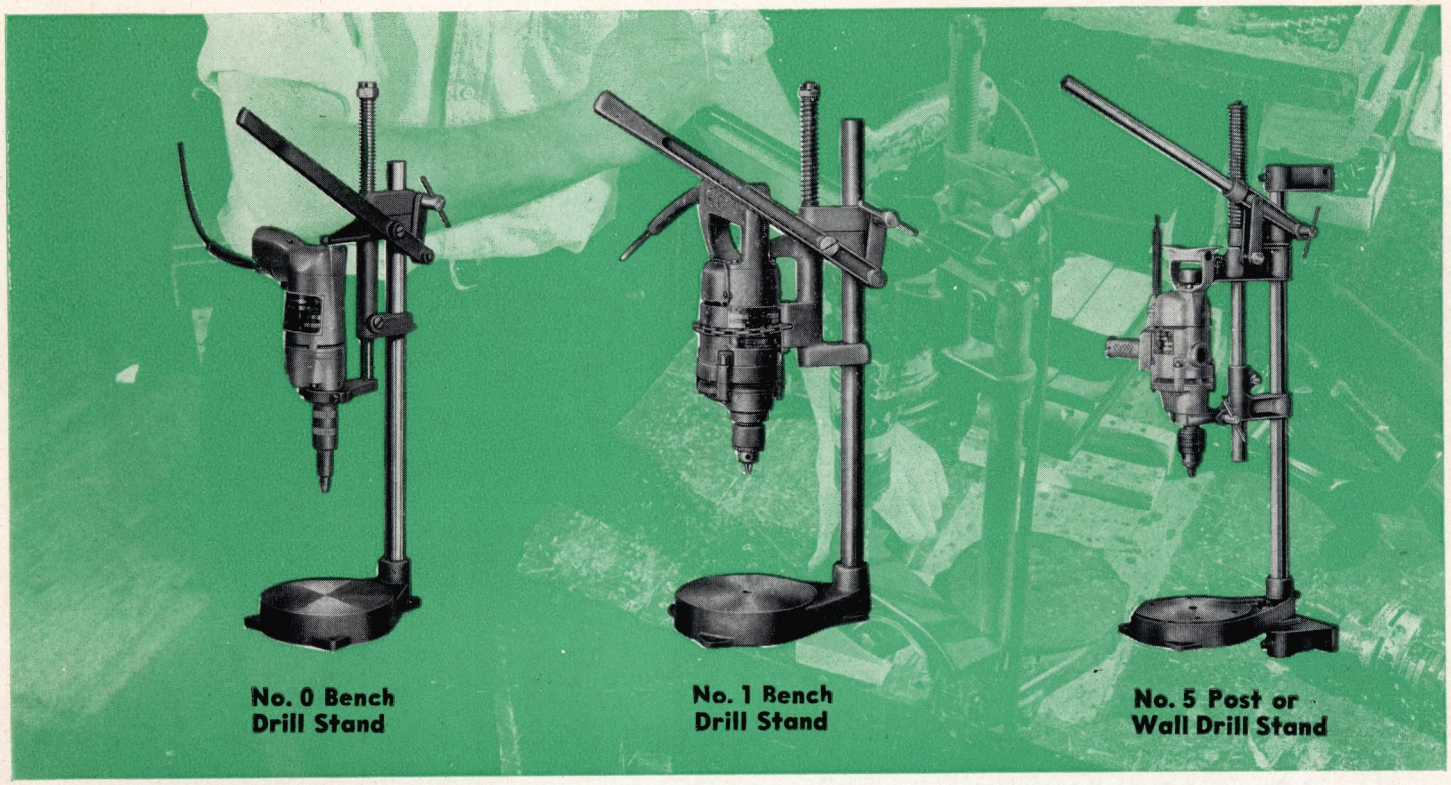
KU-2 — Heavy duty for drilling wood or steel.

CHICAGO PNEUMATIC TOOL COMPANY

FOR ALL UNIVERSAL TOOLS

UNIVERSAL

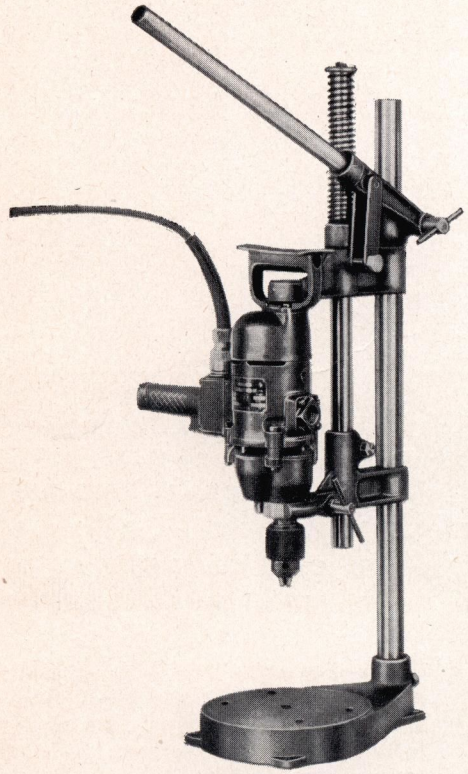
DRILL STANDS



No. 0 Bench Drill Stand

No. 1 Bench Drill Stand

No. 5 Post or Wall Drill Stand



No. 3 Bench Drill Stand

APPLICATIONS: With CP drill stands you can quickly convert CP Universal Electric Tools into handy drill presses. No tools, adaptors or brackets are required. Stands are rigidly constructed, with absolutely no side play. No. 0 Stand is for Nos. 806 and 808 "Midget" tools; No 1 is for all pistol grip models, sizes 816 to 882; No. 3 is for all side handle tools, sizes 845 and larger; No. 5 is the No. 3, equipped with brackets for post or wall mounting.

SPECIFICATIONS

Size No.	Type	Type Tools Will Take	Feed Travel	Vertical Adjustment	Centers Drill to Column	Base Diam.	Net Weight	Code Word
0	Bench	Midget Tools, No.806 and No. 808	2"	9½"	4¾"	6"	16 lbs.	BENCE
1	Bench	All Pistol Grip Models, Sizes No. 816 to No. 882	2"	6"	4¾"	6"	15½ lbs.	BENCI
3	Bench	All Side Handle Models, Sizes No. 845 and Larger	4"	13"	8"	9"	55 lbs.	BENCU
5	Post or Wall		4"	13"	8"	9"	62 lbs.	BENCO

UNIVERSAL

COMBINATION DRILL AND HAMMER DRILL

THE TWO-IN-ONE TOOL

Disassembly of Hammer Drill and Drill Parts

No. 200-2700 Combination Drill and Hammer Drill

APPLICATIONS:

This is a 5/16" Heavy Duty Universal Drill that can be converted in a few seconds to a self-rotating Hammer Drill (and vice versa) of ½" capacity in concrete, brick, stone, etc. It can be used for light chipping by applying a lock collar to stop rotation. The illustrations show the tool as a Hammer Drill and how the conversion is made.

SPECIFICATIONS

Wound for 110 or 220 volts (Universal Type to operate on either D. C. or single phase A. C.)

Size No.	200-2700
Maximum Capacity, in Soft Stone or Concrete, inches	½
Number of Blows per Minute	2700
Net Weight, pounds	11½
Overall Length, inches	18
Code Word, 110 Volts	UNIZV
Code Word, 220 Volts	UNIZW

Standard Equipment: 3-Conductor Cable and Plug, 5/16" 3-Jaw Key Chuck, one Drill Steel as selected, Drill Steel Holder and Drift, Hand Clamp, Rotation Lock and Spring, Alemite Grease Gun, 1 lb. Can Grease, 5/16" Socket Wrench and Steel Carrying Case.

Optional Equipment: For Chipping, 1 Flat Chisel in place of drill steel and holder.

CHICAGO PNEUMATIC TOOL COMPANY

DRILLS OR CHIPS — FAST!

UNIVERSAL

HAMMER DRILL

The CP Little Giant Electric Hammer Drill drills through concrete, brick or stone at 6 to 10 inches per minute.
Four-Point Drill Steel
Rotating Wrench

This powerful, compact drill is equipped with a Universal Motor for operating interchangeably on direct or alternating current of 110 or 220 volts. Perfect balance and straight-hang from operator's hand make this tool exceptionally easy to use in any position and it is particularly adapted for close-quarter work. Unequalled for drilling in concrete and soft stone as well as light chipping of metals.

DRILLS ECONOMICALLY IN

Anchoring machinery
Awning supports
Bathroom fixtures
Boiler settings
Erecting conveyors
Erecting door frames
Erecting fire escapes
Erecting lockers
Erecting partitions
Erecting shelves
Erecting wall beds
Hanging fire doors
Hanging signs
Installing seats
Installing stair treads
Marble wainscoting
Metal ceilings
Picture moulding
Pipe hangings
Railway supports
Safety guards
Shafting hangers
Supporting sprinkler lines
Wiring conduits

CHIPS SATISFACTORILY IN

Cleaning brick
Electrical work
Elevator landings
Elevator supports
Fitting steel sashes
Grooves in concrete
Metal castings
Plumbing lines
Surfacing concrete steps
Surfacing for machine installations
Surfacing foundations
Surfacing ornamental concrete work
Surfacing walls
Vault light glass

SPECIFICATIONS

Wound for 110 or 220 volts (Universal Type to operate on either D. C. or single phase A. C.)

Maximum Capacity, in Soft Stone or Concrete, inches	1
Number of Blows per Minute	1450
Net Weight, pounds	21
Overall Length, inches	17½
Energy Consumed, watts	310
Code Word, 110 Volts	CAFAB
Code Word, 220 Volts	CAFAD

Equipment—10 feet of Cable with fused Edison Connector; one Rotating Wrench; two Drill Steels. Order should state diameter and drilling depth required.
Note:—If the tool is intended for chipping, two flat Chisels will be furnished instead of Drill Steels and Rotating Wrench.

ACCESSORIES

Solid Four-Point Square Drill Steels with Round Shanks Integral with Steels

Cutting Diameter Inches	Drilling Depth Inches	Symbol Number	Drilling Depth Inches	Symbol Number	Drilling Depth Inches	Symbol Number
⅜	8	6531	12	6360	18	....
½	8	6533	12	6361	18	....
⅝	8	6535	12	6362	18	6370
¾	8	6537	12	6363	18	6371
⅞	8	6539	12	6364	18	6372
1	8	6541	12	6365	18	6373
1⅛	8	6543	12	6366	18	6374
1¼	8	6545	12	6367	18	6375

Note: Use 6530 Rotating Wrench for Above Steels.

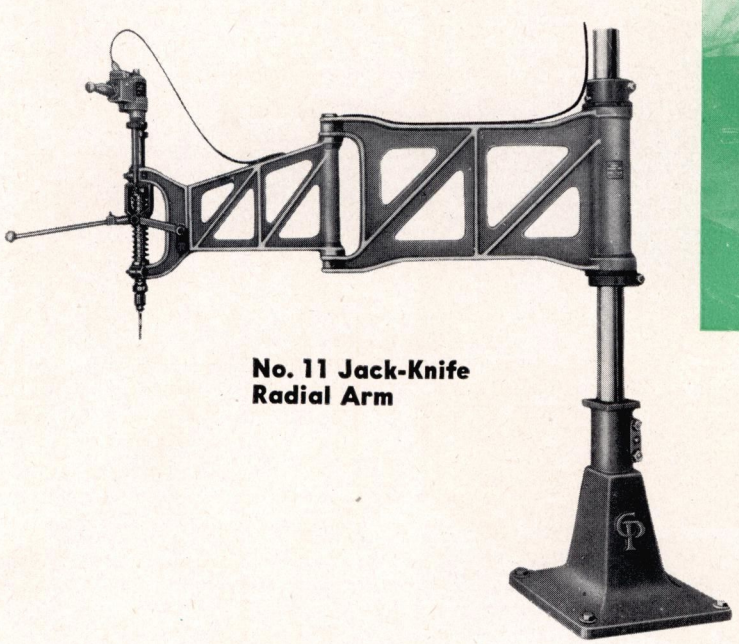
UNIVERSAL

RADIAL ARMS

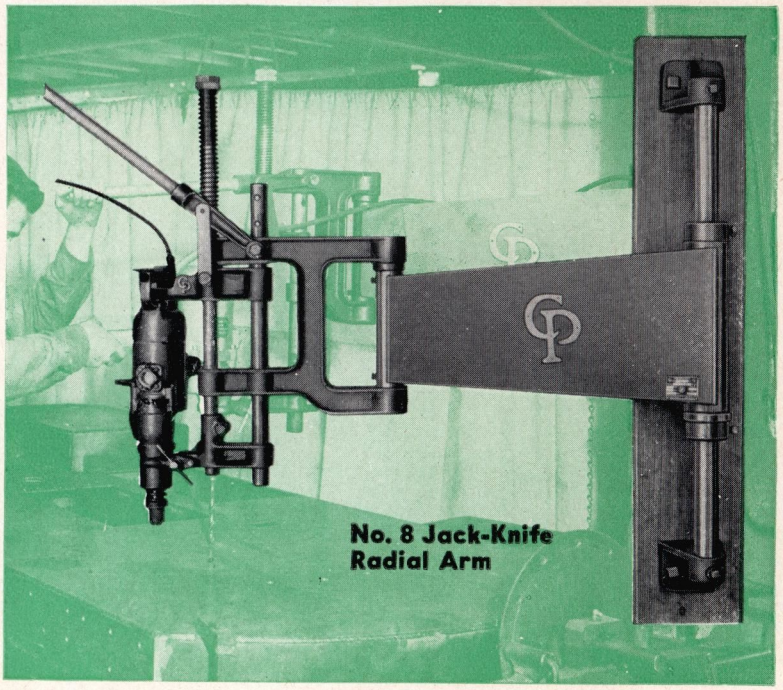
JACK-KNIFE TYPE

APPLICATIONS: CP Jack-Knife Radial Arms were designed to support or counter-balance the weight of a portable tool and at the same time provide for mechanically resisting its torque. They are particularly adapted for chain production methods. All radial and thrust loads are taken by needle or enclosed type thrust ball bearings—no plain bronze bearings are used.

The arm has vertical adjustment up and down the column and can be swung in any desired position.



No. 11 Jack-Knife Radial Arm



No. 8 Jack-Knife Radial Arm

No. 1 and No. 8—Designed for work that is continuously passing the tool on a conveyor or chain system. Extremely flexible and handles with minimum mechanical resistance.

No. 11—Furnished for slower speed or larger capacity work, equipped with Universal Motors Nos. 865, 881 and 901 and larger size motors.

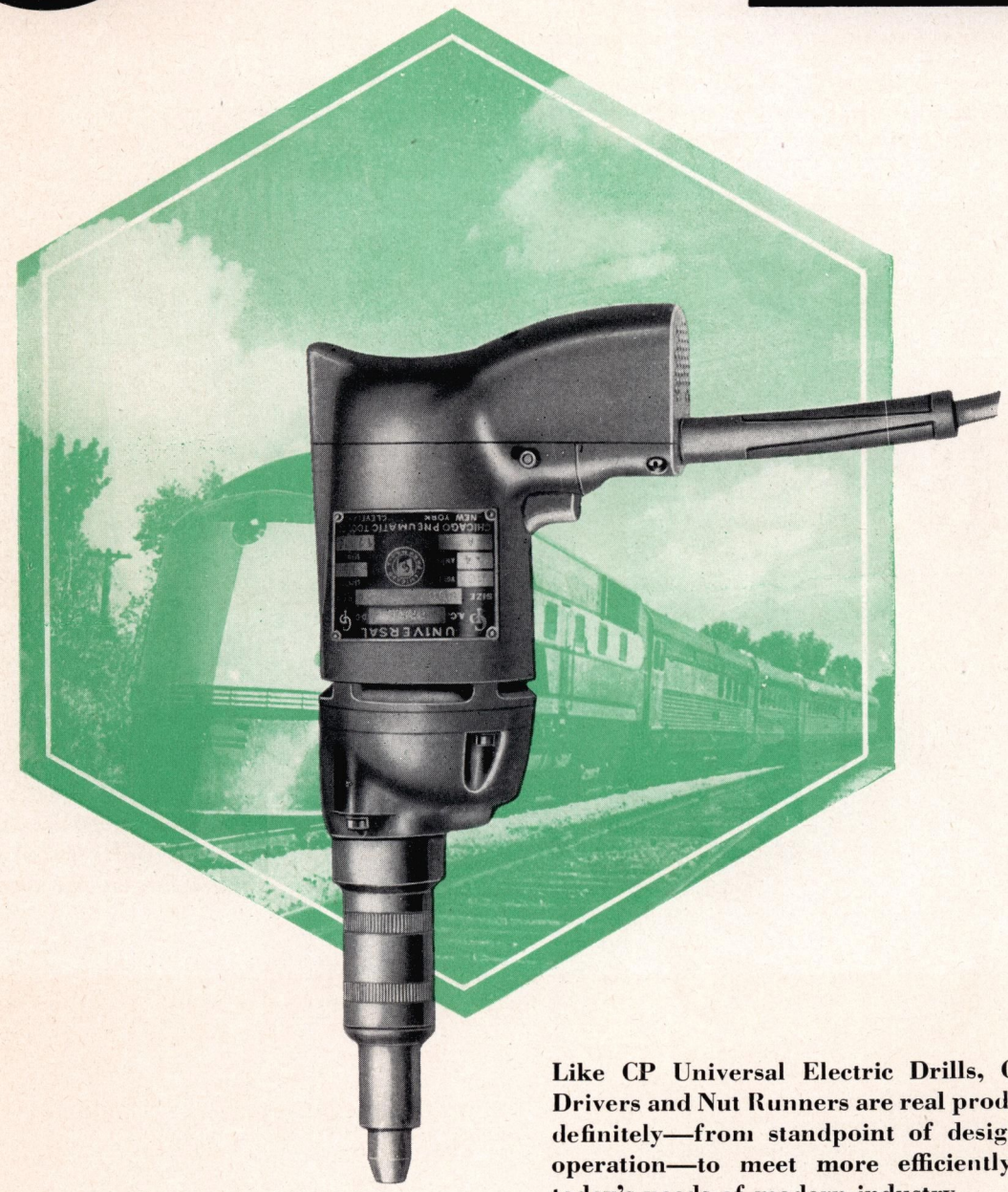
SPECIFICATIONS

Size No.	No. 1	No. 8	No. 11
Maximum radius from Post, inches	55	43	60 or 72
Minimum radius from Post, inches	10½	20	28½
Vertical travel of Bracket, inches	3¾	5	5
Distance Elbow to Tool Spindle, inches	31½	18	30
Distance Post to Elbow, inches	24	25	42
Angle of Swing, degrees	360	180	274

These Arms will accommodate all sizes of Universal or Hicycle Tools with Side Handle Switches. In ordering, be sure to specify size and type of electric tool to be used, so that proper adaptors will be supplied with the bracket.

CHICAGO PNEUMATIC TOOL COMPANY

UNIVERSAL
SCREW DRIVERS —NUT RUNNERS



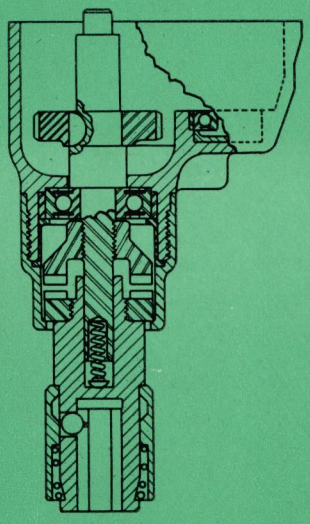
Like CP Universal Electric Drills, CP Universal Screw Drivers and Nut Runners are real production tools . . . built definitely—from standpoint of design, construction and operation—to meet more efficiently and economically today's needs of modern industry.

For those production plants whose screw driving and nut running operations are of such an unusual or difficult nature that they cannot be accomplished with the standard types of tools shown in the following section, Special Angle and Extension Head Attachments are available. See Pages 39, 48 and 49. Other tools will be specifically designed by experienced CP Engineers to meet existing conditions.

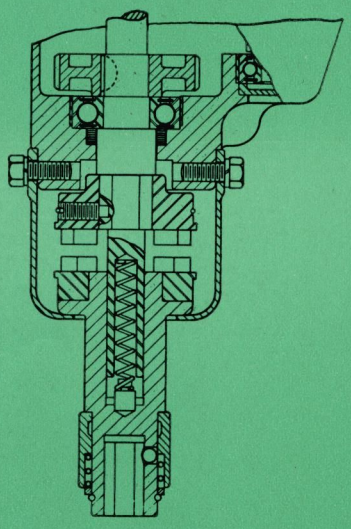
POSITIVE AND CUSHION

CP Universal Screw Drivers and Nut Runners are available with two types of clutches—Positive and Cushion.

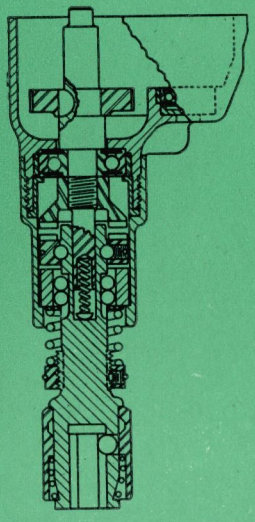
The positive drive is not recommended for continuous operations due to repetition of shock of impact. The cushion clutch gives a wider range of operation and relieves the operator and tool from shocks.



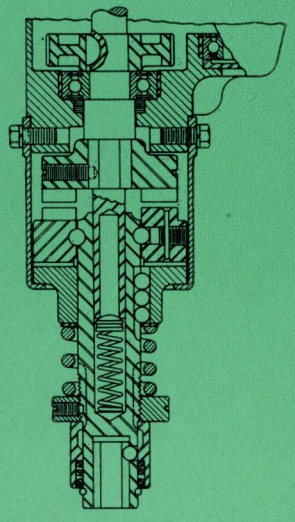
Sectional view showing construction details of 816N Positive Gear Case, used on Nos. 816N, 818N, 865N, 866N and 868N Nut Runners.



Sectional view showing construction details of 955N Positive Gear Case, used on 935N and 955N Nut Runners.



Sectional view showing construction details of 816NC Cushion Gear Case, used on Nos. 816NC, 818NC, 865NC and 866NC Nut Runners.



Sectional view showing construction details of 955NC Cushion Gear Case, used on 935NC and 955NC Nut Runners.

POSITIVE CLUTCH

Positive drive screw drivers and nut runners are equipped with a multiple-jaw clutch, the jaw face angle of which, together with the pressure applied by the operator, determine the point at which it will release. However, the operator and the tool must stand the shock of impact at instant of release. As the jaw faces have a fixed angle which cannot be changed, only a limited range of work can be done with any particular set of jaws.

CUSHION CLUTCH

As implied by its name, this type of clutch protects the operator from fatigue by cushioning the shock that is characteristic of the positive type clutch.

The adjustable feature is equally important. When properly set for the operation, it produces the proper and uniform tightness demanded in quality work.

The cushion clutch will add considerable to the life of the machine and clutch parts. It will reduce spoiled work by eliminating breakage of studs and stripping of threads.

"MIDGET"

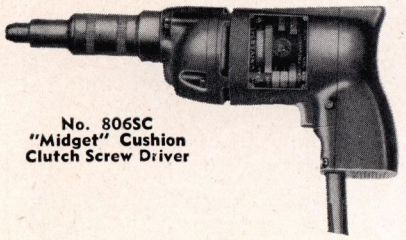
UNIVERSAL

SCREW DRIVERS

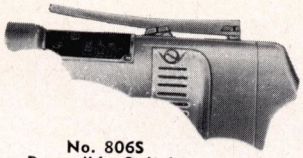
UP TO NO. 12 WOOD SCREWS

UP TO ¼" MACHINE SCREWS

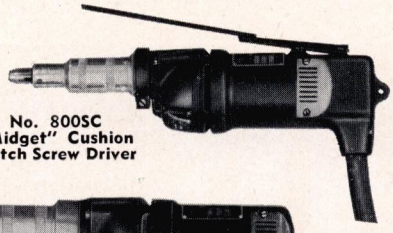
No. 806S "Midget" Positive Clutch Screw Driver



No. 806SC "Midget" Cushion Clutch Screw Driver



No. 806S Reversible Switch



No. 800SC "Midget" Cushion Clutch Screw Driver

No. 805SC "Midget" Cushion Clutch Screw Driver

APPLICATIONS: Ideal for continuous production work where confined working space and ease of handling are factors.

SPECIFICATIONS

Size No.	Type Clutch	Capacity	SPEED R.P.M. Free	SPEED R.P.M. Loaded	Net Weight	Length Overall	Spindle Offset	*CODE WORD 110V	*CODE WORD 220V
800S-1500	Positive	#12 Wood or ¼" Machine Screw	1500	900	4¼ lbs.	12"	27/32"	UNAGO	UNAGP
800S-1000	Positive		1000	600	4¼ lbs.	12"	27/32"	UNAGQ	UNAGS
800S-750	Positive		750	450	4¼ lbs.	12"	27/32"	UNAGT	UNAGU
800S-500	Positive		500	300	4¼ lbs.	12"	27/32"	UNAGV	UNAGW
800SC-1500	Cushion		1500	900	5 lbs.	12½"	27/32"	UNAGX	UNAGY
800SC-1000	Cushion		1000	600	5 lbs.	12½"	27/32"	UNOCA	UNOCB
800SC-750	Cushion		750	450	5 lbs.	12½"	27/32"	UNOBY	UNOBZ
800SC-500	Cushion		500	300	5 lbs.	12½"	27/32"	UNOBW	UNOBX
805S-1500	Positive		1500	900	4⅜ lbs.	9¾"	27/32"	UNAGZ	UNAHA
805S-1000	Positive		1000	600	4⅜ lbs.	9¾"	27/32"	UNAHB	UNAHC
805S-750	Positive		750	450	4⅜ lbs.	9¾"	27/32"	UNAHD	UNAHE
805S-500	Positive		500	300	4⅜ lbs.	9¾"	27/32"	UNAHF	UNAHG
805SC-1500	Cushion		1500	900	4⅝ lbs.	10⅞"	27/32"	UNAHH	UNAHI
805SC-1000	Cushion		1000	600	4⅝ lbs.	10⅞"	27/32"	UNOCO	UNOCQ
805SC-750	Cushion		750	450	4⅝ lbs.	10⅞"	27/32"	UNIYT	UNIYU
805SC-500	Cushion		500	300	4⅝ lbs.	10⅞"	27/32"	UNOCM	UNOCN
806S-1500	Positive		1500	900	4¼ lbs.	10½"	27/32"	UNAHJ	UNAHK
806S-1000	Positive		1000	600	4¼ lbs.	10½"	27/32"	UNAHL	UNAHM
806S-750	Positive		750	450	4¼ lbs.	10½"	27/32"	UNAHN	UNAHO
806S-500	Positive		500	300	4¼ lbs.	10½"	27/32"	UNAHQ	UNAHR
806SC-1500	Cushion		1500	900	4½ lbs.	11⅝"	27/32"	UNOEK	UNOEM
806SC-1000	Cushion		1000	600	4½ lbs.	11⅝"	27/32"	UNOEI	UNOEJ
806SC-750	Cushion		750	450	4½ lbs.	11⅝"	27/32"	UNOEG	UNOEH
806SC-500	Cushion		500	300	4½ lbs.	11⅝"	27/32"	UNOEE	UNOEF

Can be furnished for 32 Volts and 250 Volts on Special Order

*Add "REVER" for Reversible.

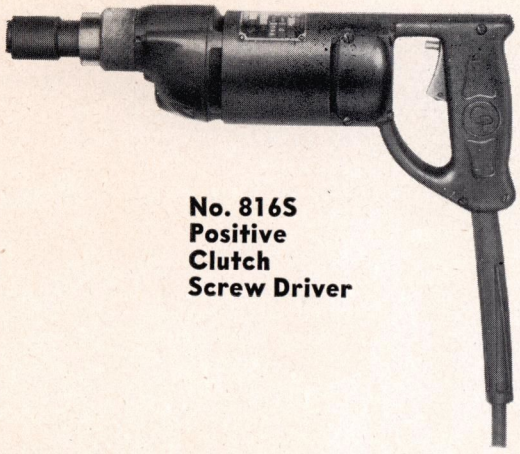
Standard Equipment: 3-Conductor Cable and Plug. One screw Bit and Finder as specified—¼" square drive bit shanks. State size and type of screw or send sample. (See Catalog No. 903 for Bits and Finders.)

Optional Equipment: ¼"—24 threaded drive bit shank or ¼ Hex. Reversing Switch at extra charge.

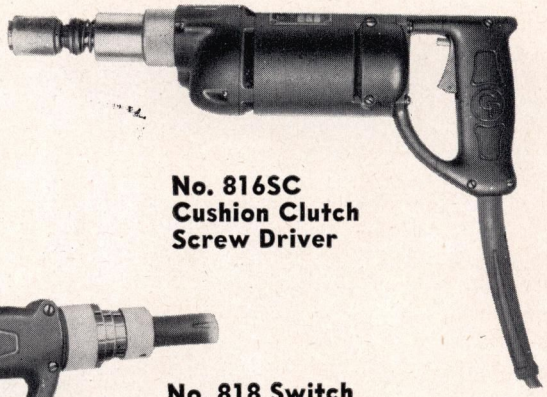
UP TO NO. 14 WOOD SCREWS

UP TO 5/16" SELF-TAPPING SCREWS

UNIVERSAL SCREW DRIVERS



No. 816S
Positive
Clutch
Screw Driver



No. 816SC
Cushion Clutch
Screw Driver

No. 818 Switch
With Cable
Disconnector

SPECIFICATIONS

Size No.	Type Clutch	Capacity	SPEED R.P.M. Free	SPEED R.P.M. Loaded	Net Weight	Length Overall	Spindle Offset	*CODE WORD 110V	*CODE WORD 220V
815S-1000	Positive	#14 Wood or 5/16" Self-Tapping Screw	1000	600	5⅝ lbs.	10¼"	31/32"	UNAHS	UNAHT
815S-750	Positive		750	450	5⅝ lbs.	10¼"	31/32"	UNBVU	UNBWE
815S-500	Positive		500	300	5⅝ lbs.	10¼"	31/32"	UNBTA	UNBUY
815SC-1000	Cushion		1000	600	6⅛ lbs.	11½"	31/32"	UNAHU	UNAHV
815SC-750	Cushion		750	450	6⅛ lbs.	11½"	31/32"	UNECY	UNEDL
815SC-500	Cushion		500	300	6⅛ lbs.	11½"	31/32"	UNEAR	UNEBX
816S-1000	Positive		1000	600	6 lbs.	13¼"	31/32"	UNAHW	UNAHX
816S-750	Positive		750	450	6 lbs.	13¼"	31/32"	UNATC	UNATD
816S-500	Positive		500	300	6 lbs.	13¼"	31/32"	UNATA	UNATB
816SC-1000	Cushion		1000	600	6½ lbs.	14¾"	31/32"	UNAHY	UNAHZ
816SC-750	Cushion		750	450	6½ lbs.	14¾"	31/32"	UNATK	UNATL
816SC-500	Cushion		500	300	6½ lbs.	14¾"	31/32"	UNATI	UNATJ
818S-1000	Positive		1000	600	6¼ lbs.	13¼"	31/32"	UNAIB	UNAIC
818S-750	Positive		750	450	6¼ lbs.	13¼"	31/32"	UNAID	UNAIF
818S-500	Positive		500	300	6¼ lbs.	13¼"	31/32"	UNAIG	UNAIH
818SC-1000	Cushion		1000	600	6¾ lbs.	14¾"	31/32"	UNAIJ	UNAIK
818SC-750	Cushion		750	450	6¾ lbs.	14¾"	31/32"	UNATO	UNATP
818SC-500	Cushion		500	300	6¾ lbs.	14¾"	31/32"	UNATM	UNATN

Can be furnished for 32 Volts and 250 Volts on Special Order

*Add "REVER" for Reversible.

Standard Equipment: 3-Conductor Cable and Plug. 7/16" Hex. Slip Chuck. Two Screw Driver Bits with or without Finders as specified. (State size and type of screw, or send sample.)

Optional Equipment: Non-rotating Bell-Mouth Finder in place of Slip Chuck. (State size and type of screw, or send sample.)

Extra Equipment: Reversing Switch at extra charge.

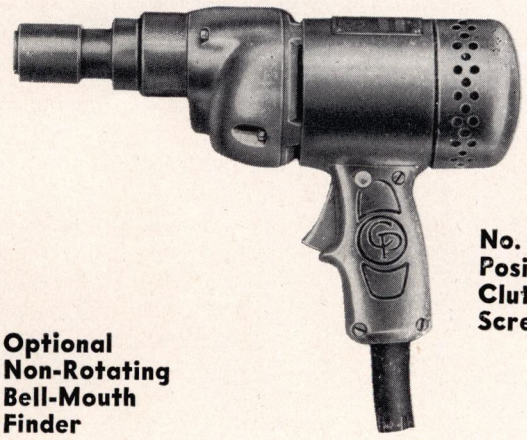
UNIVERSAL

SCREW DRIVERS

UP TO NO. 14 WOOD SCREWS

UP TO 5/16" SELF-TAPPING SCREWS

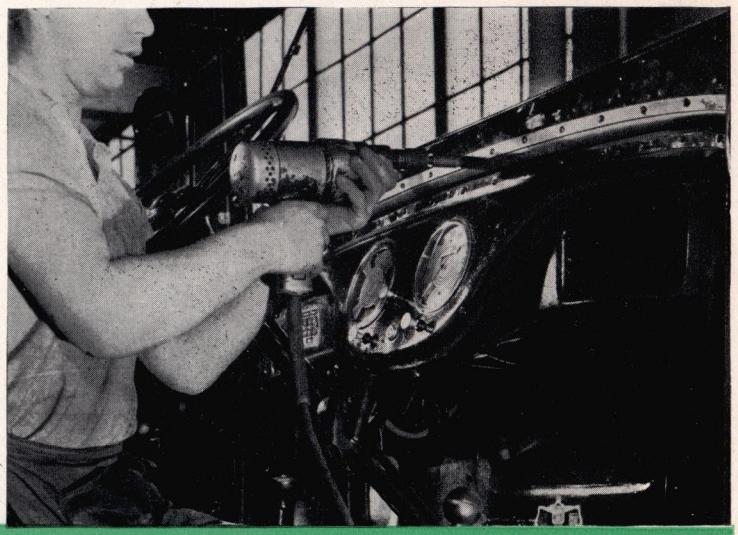
No. 815SC Cushion Clutch Screw Driver



No. 815S Positive Clutch Screw Driver

Optional Non-Rotating Bell-Mouth Finder

APPLICATIONS: Recommended for driving screws of all types in production plants such as automobile, auto body, boat building, radio, cabinet and furniture manufacturing. Nos. 816S and 816SC when equipped with reversing switch are particularly adapted for disassembling and assembling knock-down shipments. The Nos. 815S and 815SC Screw Drivers are recommended where working space is such that the side handle type of tool is better adapted to the work.



CHICAGO PNEUMATIC TOOL COMPANY

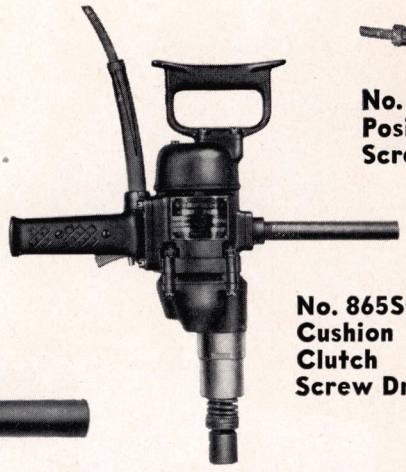
UNIVERSAL

SCREW DRIVERS

UP TO No. 16 WOOD SCREWS

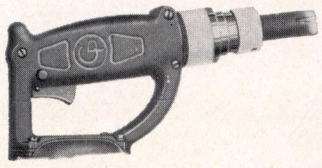
UP TO 3/8" MACHINE SCREWS

No. 865S Positive Clutch Screw Driver



No. 865SC Cushion Clutch Screw Driver

No. 866S Positive Clutch Screw Driver



No. 868S Switch with Cable Disconnector

No. 866SC Cushion Clutch Screw Driver

Optional Non-Rotating Bell-Mouth Finder

APPLICATIONS: Fulfill the requirements for the heavier screw driving operations in production plants. Especially recommended for construction work, boat and ship building, railway, passenger and freight car shops, automobile and auto truck plants, etc. When equipped with reversing switch, particularly adapted for disassembling and assembling knock-down shipments.

SPECIFICATIONS

Size No.	Type Clutch	CAPACITY	SPEED R. P. M. Free	SPEED R. P. M. Loaded	Net Weight	Length Overall	Spindle Offset	*CODE WORD 110V	*CODE WORD 220V
865S-500	Positive	No. 16 Wood or 3/8" Machine Screw	500	300	10 lbs.	14 1/4"	1 1/16"	UNOFI	UNOFK
865S-750	Positive		750	450	10 lbs.	14 1/4"	1 1/16"	UNOFL	UNOFM
865SC-500	Cushion		500	300	11 lbs.	16 1/4"	1 1/16"	UNOFN	UNOFO
865SC-750	Cushion		750	450	11 lbs.	16 1/4"	1 1/16"	UNOFP	UNOFR
866S-500	Positive	No. 16 Wood or 3/8" Machine Screw	500	300	8 3/4 lbs.	14 1/4"	1 1/16"	UNATQ	UNATR
866S-750	Positive		750	450	8 3/4 lbs.	14 1/4"	1 1/16"	UNATS	UNATT
868S-500	Positive		500	300	9 lbs.	14 1/4"	1 1/16"	UNATU	UNATV
868S-750	Positive		750	450	9 lbs.	14 1/4"	1 1/16"	UNATW	UNATX
866SC-500	Cushion	No. 16 Wood or 3/8" Machine Screw	500	300	9 5/8 lbs.	16 1/4"	1 1/16"	UNATY	UNATZ
866SC-750	Cushion		750	450	9 5/8 lbs.	16 1/4"	1 1/16"	UNCUA	UNCUB
868SC-500	Cushion		500	300	9 7/8 lbs.	16 1/4"	1 1/16"	UNCUC	UNCUD
868SC-750	Cushion		750	450	9 7/8 lbs.	16 1/4"	1 1/16"	UNCUE	UNCUF

Can be furnished for 32 Volts and 250 Volts on Special Order

*Add "REVER" for Reversible.

Standard Equipment: 3-Conductor Cable and Plug. Quick Change Chuck with 7/16" hex. socket. 2 Screw Driver Bits with or without Finders as specified. (State size and type of screw or send sample.)

Optional Equipment: Non-rotating Bell-Mouth Finder in place of Quick Change Chuck. (State size and type of screw or send sample.) Furnished with Reversing Switch at extra charge.

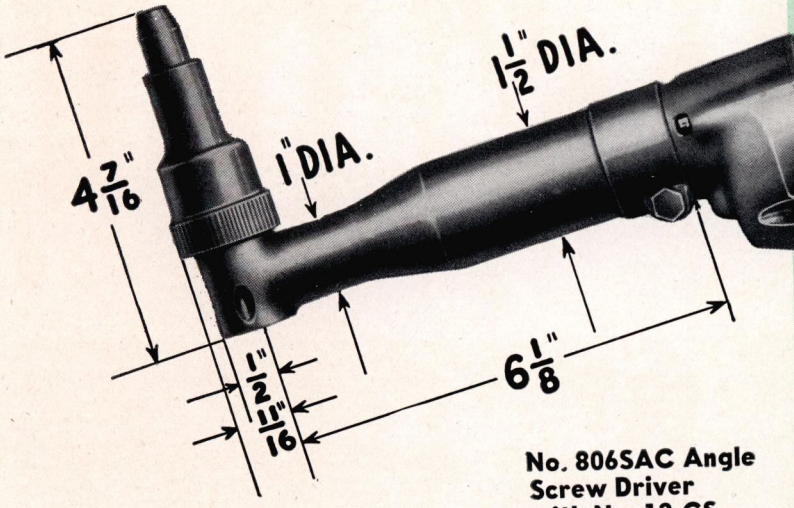
CHICAGO PNEUMATIC TOOL COMPANY

UNIVERSAL

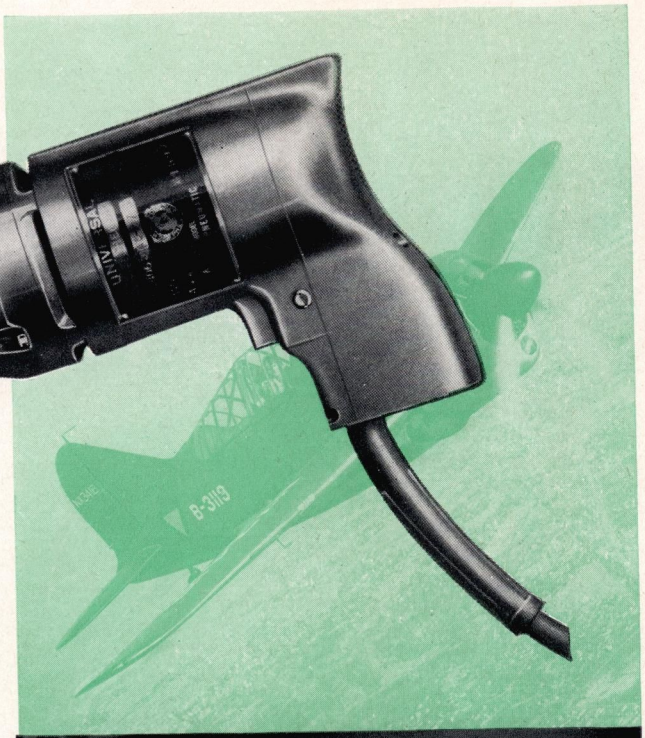
ANGLE SCREW DRIVERS

UP TO No. 8 WOOD SCREWS

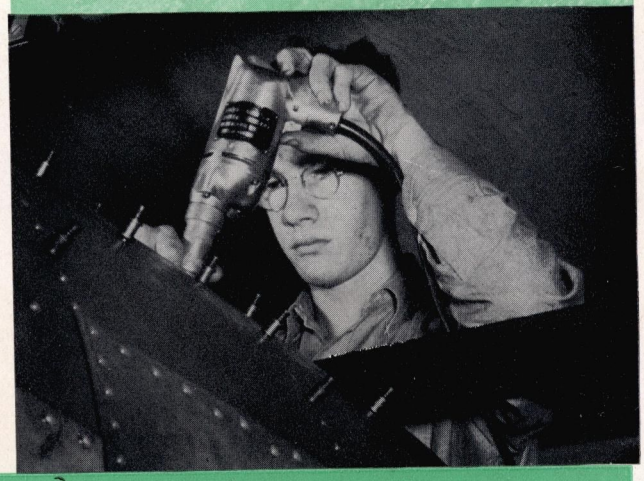
UP TO 3/16" MACHINE SCREWS



No. 806SAC Angle Screw Driver with No. 12-CS Head



APPLICATIONS: Especially designed for solving special problems of screw driving arising from unusual conditions encountered in the airplane industry. The tools shown are typical of the special Right Angle Head Attachments generally adaptable to a wide range of conditions. However, they may be equipped with different attachments. For complete list, specifications and dimensioned line drawings, send for Special Publication 1944.



SPECIFICATIONS

Size No.	CAPACITY	SPEED R.P.M.		Net Weight	Overall Length	Angle Head Spindle Offset	Angle Head No.	*CODE WORD	
	Screw Driving	Free	Loaded					110V	220V
806SAC-1125	No. 8 Wood	1125	675	6½ lbs.	13¾"	11/16"	12-CS	UNADM	UNADN
806SAC-750	or 3/16"	750	450	6½ lbs.	13¾"	11/16"	12-CS	UNOJG	UNOJH
806SAC-560	Machine	560	335	6½ lbs.	13¾"	11/16"	12-CS	UNOJI	UNOJJ
806SAC-375	Screw	375	230	6½ lbs.	13¾"	11/16"	12-CS	UNOJK	UNOJL

Can be furnished for 32 Volts and 250 Volts on Special Order

*Add "REVER" for Reversible.

Standard Equipment: 3-Conductor Cable and Plug. 12-CS Head (¼" Sq. Bit Shank). One Bit and Finder as specified. (State size and type screw or send sample.)

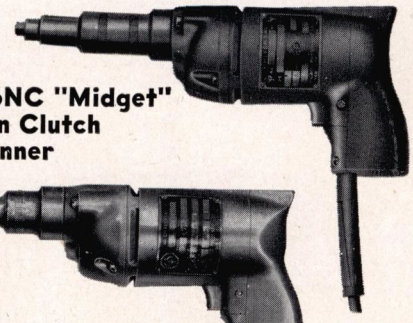
UNIVERSAL

NUT RUNNERS

"MIDGET"

UP TO 3/16" NUTS

No. 805NC "Midget"
Cushion Clutch
Nut Runner



No. 806NC "Midget"
Cushion Clutch
Nut Runner

No. 800NC "Midget"
Cushion Clutch
Nut Runner

No. 806N "Midget"
Positive Clutch
Nut Runner

APPLICATIONS:

The pygmy size and pistol-like proportions of these "Midget" Nut Runners make them ideal for running down small nuts and bolts in the close-quarters work encountered in airplane, automobile and body assembly, furniture, cabinet and sheet metal fabrication.

SPECIFICATIONS

Size No.	Type Clutch	Capacity	SPEED R.P.M.		Net Weight	Length Overall	Spindle Offset	*CODE WORD	
			Free	Loaded				110V	220V
800N-1500	Positive	3/16" Nuts	1500	900	4¾ lbs.	11⅛"	27/32"	UNABA	UNABC
800N-1000	Positive		1000	600	4¾ lbs.	11⅛"	27/32"	UNABD	UNABE
800N-750	Positive		750	450	4¾ lbs.	11⅛"	27/32"	UNABF	UNABG
800N-500	Positive		500	300	4¾ lbs.	11⅛"	27/32"	UNABH	UNABI
800NC-1500	Cushion		1500	900	5 lbs.	12½"	27/32"	UNABJ	UNABK
800NC-1000	Cushion		1000	600	5 lbs.	12½"	27/32"	UNOBF	UNOBG
800NC-750	Cushion		750	450	5 lbs.	12½"	27/32"	UNOBD	UNOBE
800NC-500	Cushion		500	300	5 lbs.	12½"	27/32"	UNOBB	UNOBC
805N-1500	Positive		1500	900	4⅜ lbs.	9¾"	27/32"	UNABL	UNABM
805N-1000	Positive		1000	600	4⅜ lbs.	9¾"	27/32"	UNABN	UNABO
805N-750	Positive		750	450	4⅜ lbs.	9¾"	27/32"	UNABP	UNABQ
805N-500	Positive		500	300	4⅜ lbs.	9¾"	27/32"	UNABR	UNABS
805NC-1500	Cushion		1500	900	4⅝ lbs.	10⅞"	27/32"	UNABT	UNABU
805NC-1000	Cushion		1000	600	4⅝ lbs.	10⅞"	27/32"	UNOBU	UNOBV
805NC-750	Cushion		750	450	4⅝ lbs.	10⅞"	27/32"	UNIYX	UNIYZ
805NC-500	Cushion		500	300	4⅝ lbs.	10⅞"	27/32"	UNOBS	UNOBT
806N-1500	Positive		1500	900	4¼ lbs.	10½"	27/32"	UNABV	UNABW
806N-1000	Positive		1000	600	4¼ lbs.	10½"	27/32"	UNABX	UNABY
806N-750	Positive		750	450	4¼ lbs.	10½"	27/32"	UNABZ	UNACA
806N-500	Positive		500	300	4¼ lbs.	10½"	27/32"	UNACB	UNACC
806NC-1500	Cushion		1500	900	4½ lbs.	11⅝"	27/32"	UNOEU	UNOEV
806NC-1000	Cushion		1000	600	4½ lbs.	11⅝"	27/32"	UNOES	UNOET
806NC-750	Cushion		750	450	4½ lbs.	11⅝"	27/32"	UNOEP	UNOER
806NC-500	Cushion		500	300	4½ lbs.	11⅝"	27/32"	UNOEN	UNOEO

Can be furnished for 32 Volts and 250 Volts on Special Order

*Add "REVER" for Reversible.

Standard Equipment: 3-Conductor Cable with Plug. One Socket Wrench (Specify size across flats Hex. or Square). Shank for socket, 9/32" Square.

Optional Equipment: ¼" square drive shank or ⅜" square drive shank. Reversing Switch at extra charge.

CHICAGO PNEUMATIC TOOL COMPANY

UNIVERSAL

NUT RUNNERS

UP TO 3/8" NUTS

UP TO 1/4" x 3" LAG SCREWS

No. 815NC
Cushion Clutch
Nut Runner

No. 816N
Positive Clutch
Nut Runner

APPLICATIONS: Nos. 815N, 815NC, 816N, 816NC, 818N and 818NC Nut Runners shown on this and the following page are recommended for tightening nuts and bolts in automobile and body assembly, furniture, cabinet and sheet metal fabrication. Nos. 816N and 816NC when equipped with reversing switch are particularly adapted for disassembling and assembling knock-down shipments. Nos. 816N and 815NC Nut Runners are recommended for tightening nuts and bolts where working space is such that the side handle type of tool is better adapted to the work.

UNIVERSAL

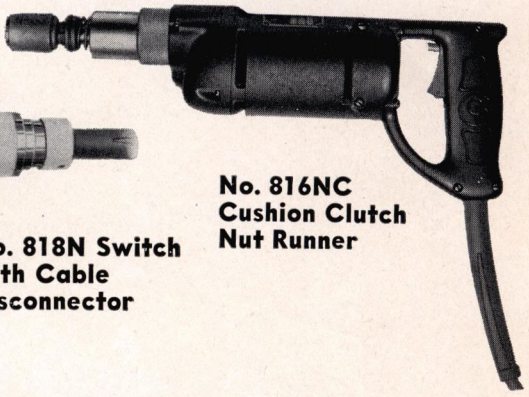
NUT RUNNERS

UP TO 3/8" NUTS

UP TO 1/4" x 3" LAG SCREWS

No. 815N
Positive Clutch
Nut Runner

No. 818N Switch
with Cable
Disconnector



No. 816NC
Cushion Clutch
Nut Runner

APPLICATIONS: Recommended for tightening nuts and bolts in automobile and body assembly, furniture, cabinet and sheet metal fabrication.

SPECIFICATIONS

Size No.	Type Clutch	Capacity	SPEED R.P.M. Free	SPEED R.P.M. Loaded	Net Weight	Length Overall	Spindle Offset	*CODE WORD 110V	*CODE WORD 220V
815N-1000	Positive	3/8" Nuts; 1/4" x 3" Lag Screws	1000	600	5 5/8 lbs.	10 1/4"	31/32"	UNACD	UNACE
815N- 750	Positive		750	450	5 5/8 lbs.	10 1/4"	31/32"	UNEIP	UNEJK
815N- 500	Positive		500	300	5 5/8 lbs.	10 1/4"	31/32"	UNEGS	UNEHZ
815NC-1000	Cushion		1000	600	6 1/8 lbs.	11 1/2"	31/32"	UNACF	UNACG
815NC- 750	Cushion		750	450	6 1/8 lbs.	11 1/2"	31/32"	UNEOB	UNEPC
815NC- 500	Cushion		500	300	6 1/8 lbs.	11 1/2"	31/32"	UNEMR	UNENH
816N-1000	Positive		1000	600	6 lbs.	13 1/4"	31/32"	UNACH	UNACI
816N- 750	Positive		750	450	6 lbs.	13 1/4"	31/32"	UNCUI	UNCUJ
816N- 500	Positive		500	300	6 lbs.	13 1/4"	31/32"	UNCUG	UNCUH
816NC-1000	Cushion		1000	600	6 1/2 lbs.	14 3/4"	31/32"	UNACJ	UNACK
816NC- 750	Cushion		750	450	6 1/2 lbs.	14 3/4"	31/32"	UNCUQ	UNCUR
816NC- 500	Cushion		500	300	6 1/2 lbs.	14 3/4"	31/32"	UNCUO	UNCUP
818N-1000	Positive		1000	600	6 1/4 lbs.	13 1/4"	31/32"	UNACL	UNACM
818N- 750	Positive		750	450	6 1/4 lbs.	13 1/4"	31/32"	UNCUM	UNCUN
818N- 500	Positive		500	300	6 1/4 lbs.	13 1/4"	31/32"	UNCUK	UNCUL
818NC-1000	Cushion		1000	600	6 3/4 lbs.	14 3/4"	31/32"	UNACN	UNACO
818NC- 750	Cushion		750	450	6 3/4 lbs.	14 3/4"	31/32"	UNCUV	UNCUW
818NC- 500	Cushion		500	300	6 3/4 lbs.	14 3/4"	31/32"	UNCUS	UNCUT

Can be furnished for 32 Volts and 250 Volts on Special Order

*Add "REVER" for Reversible.

Standard Equipment: 3-Conductor Cable and Plug. 7/16" Hex. Slip Chuck, One Socket Wrench as specified. (Specify dimensions across flats Hex. or square, or send sample nut or bolt.)

Optional Equipment: Reversing Switch on Nos. 816 or 818, at extra charge.

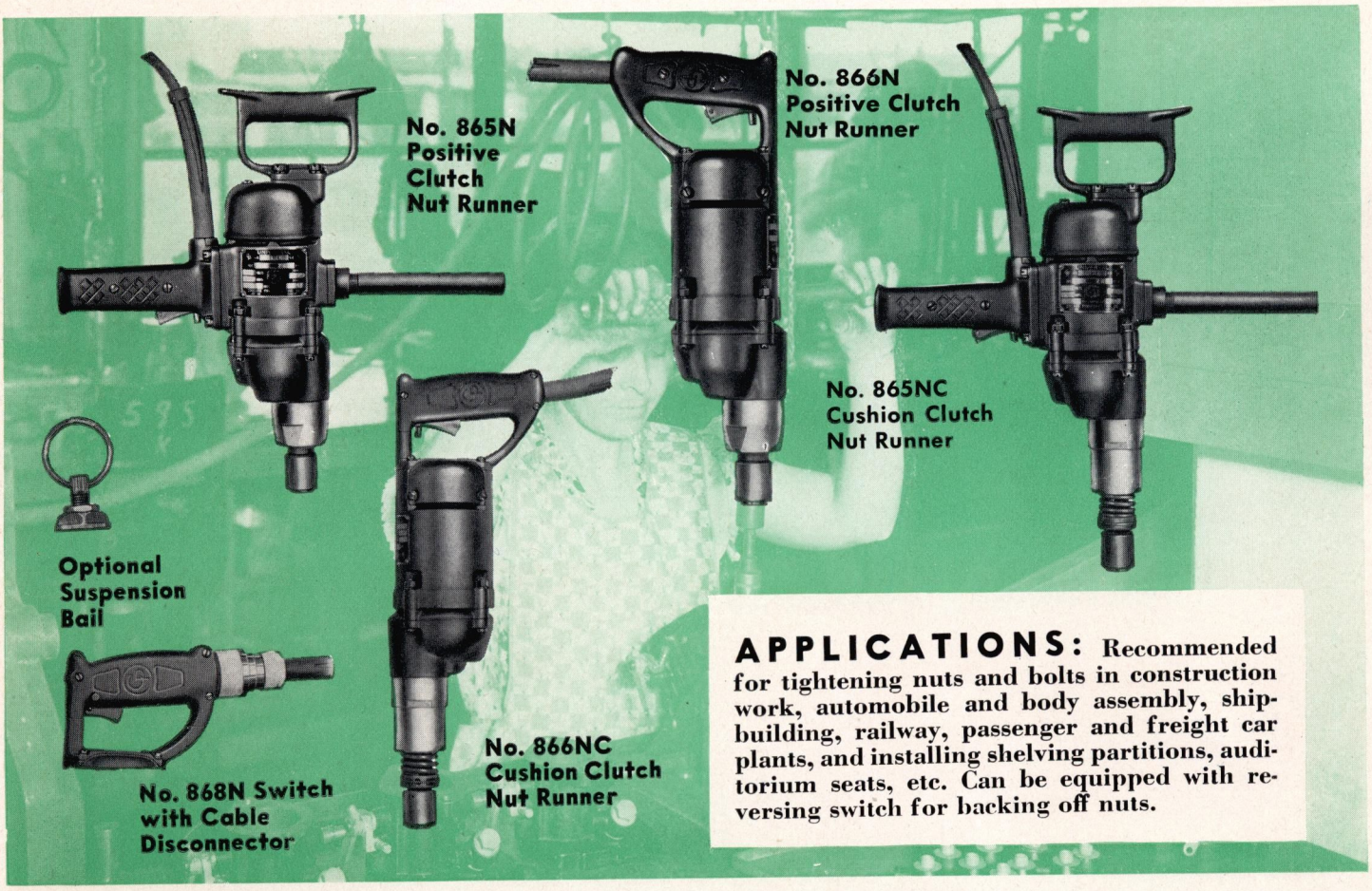
CHICAGO PNEUMATIC TOOL COMPANY

UP TO 3/8" NUTS

UP TO 5/16" x 4" LAG SCREWS

UNIVERSAL

NUT RUNNERS



APPLICATIONS: Recommended for tightening nuts and bolts in construction work, automobile and body assembly, shipbuilding, railway, passenger and freight car plants, and installing shelving partitions, auditorium seats, etc. Can be equipped with reversing switch for backing off nuts.

SPECIFICATIONS

Size No.	Type Clutch	Capacity	SPEED R.P.M. Free	SPEED R.P.M. Loaded	Net Weight	Length Overall	Spindle Offset	*CODE WORD 110V	*CODE WORD 220V
865N-500	Positive	3/8" Nuts; 5/16" x 4" Lag Screws	500	300	10 lbs.	14 1/4"	1 1/16"	UNIXO	UNIXP
865N-750	Positive		750	450	10 lbs.	14 1/4"	1 1/16"	UNIXQ	UNIXR
865NC-500	Cushion		500	300	11 lbs.	16 1/4"	1 1/16"	UNIXS	UNIXT
865NC-750	Cushion		750	450	11 lbs.	16 1/4"	1 1/16"	UNIXU	UNIXV
866N-500	Positive		500	300	8 3/4 lbs.	14 1/4"	1 1/16"	UNCUX	UNCUY
866N-750	Positive		750	450	8 3/4 lbs.	14 1/4"	1 1/16"	UNCUZ	UNIXA
868N-500	Positive		500	300	9 lbs.	14 1/4"	1 1/16"	UNIXB	UNIXC
868N-750	Positive		750	450	9 lbs.	14 1/4"	1 1/16"	UNIXD	UNIXE
866NC-500	Cushion		500	300	9 5/8 lbs.	16 1/4"	1 1/16"	UNIXF	UNIXH
866NC-750	Cushion		750	450	9 5/8 lbs.	16 1/4"	1 1/16"	UNIXI	UNIXJ
868NC-500	Cushion		500	300	9 7/8 lbs.	16 1/4"	1 1/16"	UNIXK	UNIXL
868NC-750	Cushion		750	450	9 7/8 lbs.	16 1/4"	1 1/16"	UNIXM	UNIXN

Can be furnished for 32 Volts and 250 Volts on Special Order

*Add "REVER" for Reversible.

Standard Equipment: 3-Conductor Cable and Plug. Spade Handle, Dead Handle on 865N and 865NC Nut Runners only. Quick Change Chuck with 7/16" hex. socket. 1 Socket Wrench (send sample nut or bolt or state dimensions across flats hex. or square).

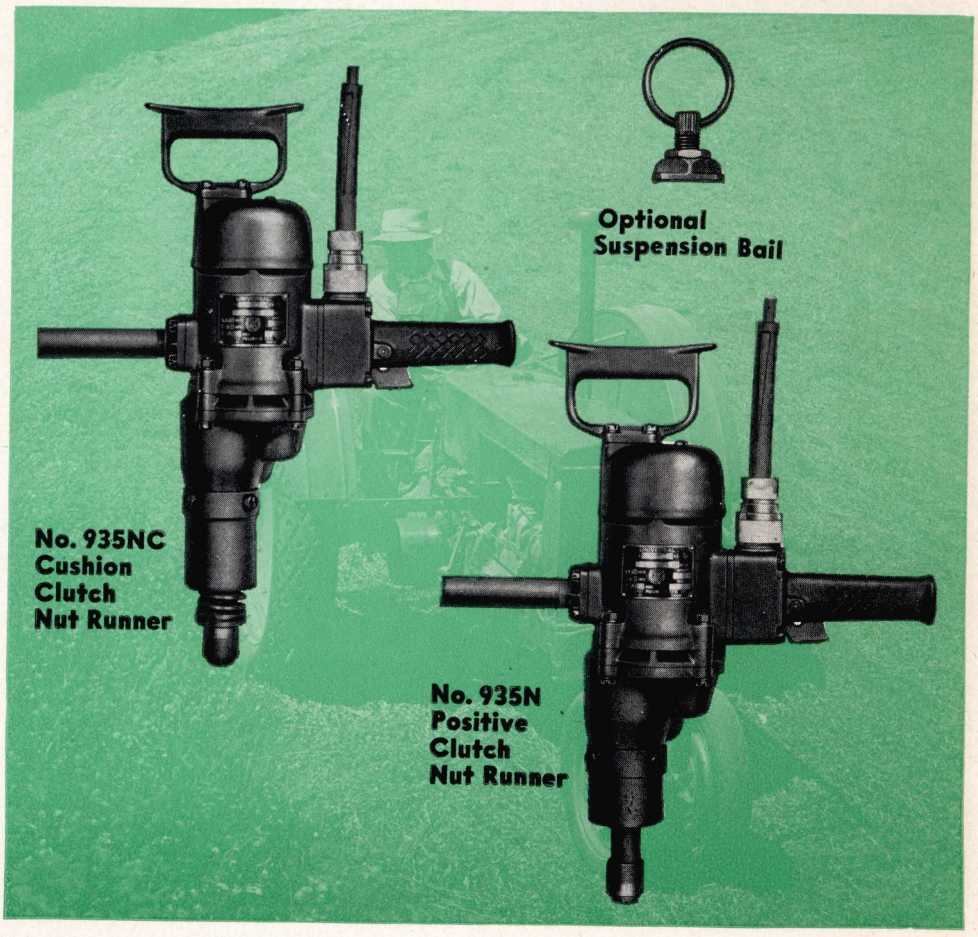
Optional Equipment: Vertical and Horizontal Suspension Bails in place of Spade Handle on 865N and 865NC Nut Runners only. Furnished with Reversing Switch at extra charge.

UNIVERSAL

NUT RUNNERS

UP TO 1/2" NUTS

UP TO 3/8" x 4 1/2" LAG SCREWS



APPLICATIONS: Recommended for tightening nuts and bolts for assembly and maintenance on automobiles, trucks, buses, railway passenger and freight cars, and erecting scaffolding, concrete forms, conveyors, stairways, metal frames, etc. No. 935N is particularly adapted for driving lag screws for crating and lagging down heavy machinery. Can be furnished with reversing switches for backing off nuts.

SPECIFICATIONS

Size No.	Type Clutch	Capacity	SPEED R.P.M. Free	SPEED R.P.M. Loaded	Net Weight	Length Overall	Spindle Offset	*CODE WORD 110V	*CODE WORD 220V
935N-500	Positive	1/2" Nuts; 3/8" x 4 1/2" Lag Screws	500	300	19 lbs.	19 1/4"	1 13/32"	UNIXW	UNIXX
935N-750	Positive		750	450	19 lbs.	19 1/4"	1 13/32"	UNIXY	UNIXZ
935NC-500	Cushion		500	300	20 1/4 lbs.	19 3/4"	1 13/32"	UNDAA	UNDAB
935NC-750	Cushion		750	450	20 1/4 lbs.	19 3/4"	1 13/32"	UNDAC	UNDAD

Can be furnished for 32 Volts and 250 Volts on Special Order

*Add "REVER" for Reversible.

Standard Equipment: 3-Conductor Cable and Plug. Spade Handle. Dead Handle. Quick Change Chuck with 7/16" hex. socket. 1 Socket Wrench (send sample nut or bolt or state dimension across flats hex. or square).

Optional Equipment: Vertical and Horizontal Suspension Bails in place of Spade Handle. Optional without Cable Disconnector, specify size No. 937N or 937NC. Furnished with Reversing Switch at extra charge.

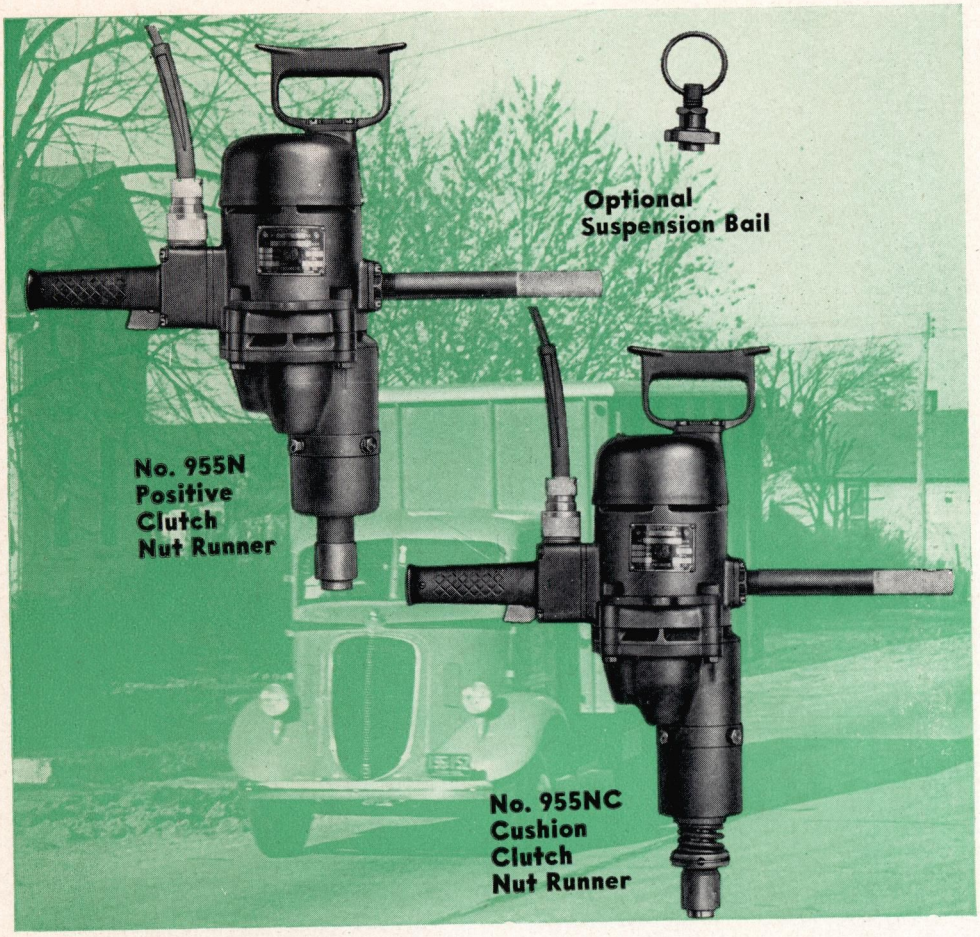
CHICAGO PNEUMATIC TOOL COMPANY

UNIVERSAL

NUT RUNNERS

UP TO 7/8" NUTS

UP TO 1/2" x 5 1/2" LAG SCREWS



APPLICATIONS: Recommended for tightening nuts and bolts for assembly and maintenance in marine, railway, structural steel work, bridge and building construction. No. 955N is particularly adapted for driving lag screws. Can be furnished with reversing switches for backing off nuts.

SPECIFICATIONS

Size No.	Type Clutch	Capacity	SPEED R.P.M. Free	SPEED R.P.M. Loaded	Net Weight	Length Overall	Spindle Offset	*CODE WORD 110V	*CODE WORD 220V
955N -300	Positive	7/8" Nuts; 1/2" x 5 1/2" Lag Screws	300	180	29 1/2 lbs.	22 1/4"	1 5/8"	UNOFS	UNOFT
955N -500	Positive		500	300	27 1/2 lbs.	20 1/2"	1 5/8"	UNDAE	UNDAF
955N -750	Positive		750	450	27 1/2 lbs.	20 1/2"	1 5/8"	UNDAG	UNDAH
955NC-300	Cushion		300	180	32 lbs.	23"	1 5/8"	UNOFU	UNOFV
955NC-500	Cushion		500	300	30 lbs.	21 1/4"	1 5/8"	UNDAI	UNDAJ
955NC-750	Cushion		750	450	30 lbs.	21 1/4"	1 5/8"	UNDAK	UNDAL

Can be furnished for 32 Volts and 250 Volts on Special Order

*Add "REVER" for Reversible.

Standard Equipment: 3-Conductor Cable and Plug. Spade Handle. Dead Handle. Quick Change Chuck with 5/8" hex. socket. 1 Socket Wrench (send sample nut or bolt or state dimension across flats hex. or square).

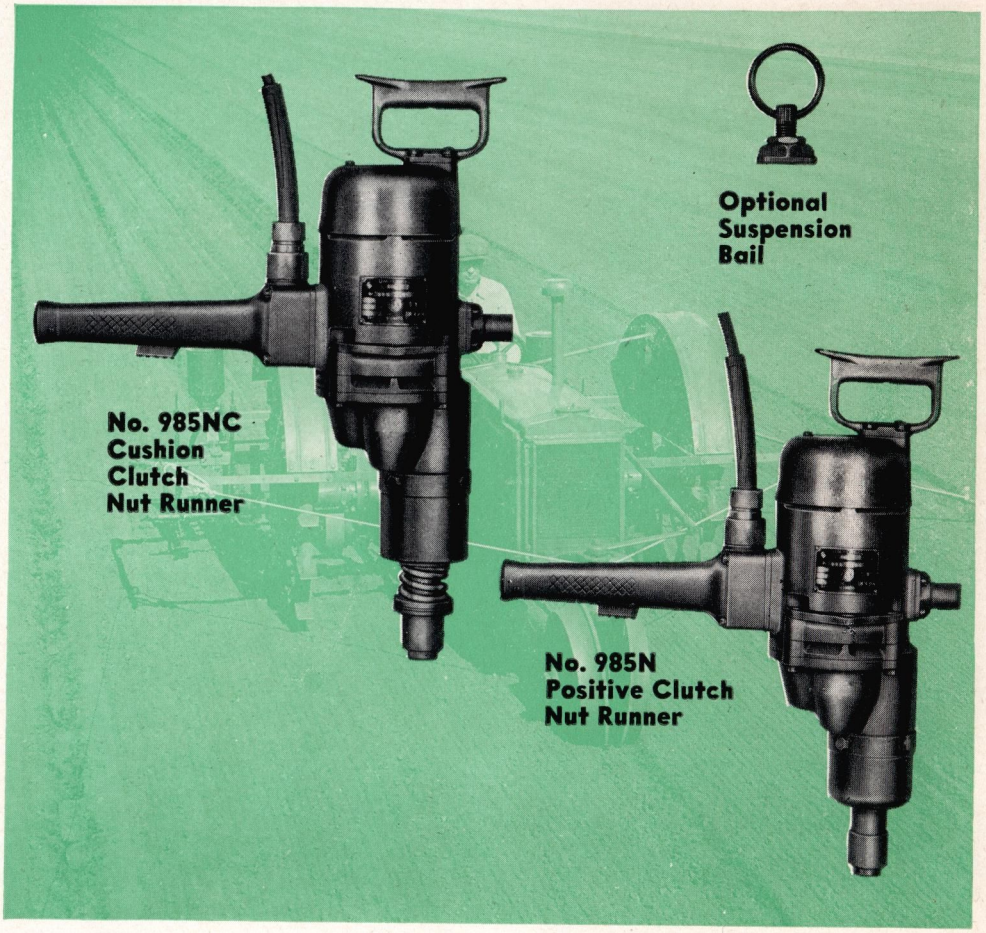
Optional Equipment: Vertical and Horizontal Suspension Bails in place of Spade Handle. Optional without Cable Disconnector, specify No. 957N or 957NC. Furnished with Reversing Switch at extra charge.

UNIVERSAL

NUT RUNNERS

UP TO 7/8" NUTS

UP TO 5/8" x 6" LAG SCREWS



APPLICATIONS: Especially designed for the more difficult operations requiring a motor of larger capacity than the Nos. 955N and 955NC Nut Runners (see page 45). No. 985N is particularly adapted for heavy duty lag screw driving. Can be furnished with reversing switch for backing off nuts.

SPECIFICATIONS

Size No.	Type Clutch	Capacity	SPEED R.P.M. Free	SPEED R.P.M. Loaded	Net Weight	Length Overall	Spindle Offset	*CODE WORD 110V	*CODE WORD 220V
985N -500	Positive	1" Nuts; 5/8" x 6" Lag Screws	500	300	30½ lbs.	21¼"	1⅝"	UNESG	UNETJ
985N -750	Positive		750	450	30½ lbs.	21¼"	1⅝"	UNEUV	UNEVA
985NC-500	Cushion		500	300	33 lbs.	22"	1⅝"	UNEWB	UNEXZ
985NC-750	Cushion		750	450	33 lbs.	22"	1⅝"	UNEYC	UNEZD

Can be furnished for 32 Volts and 250 Volts on Special Order

*Add "REVER" for Reversible.

Standard Equipment: 3-Conductor Cable and Plug. Spade Handle. Dead Handle. Quick Change Chuck with 5/8" hex. socket. 1 Socket Wrench (send sample nut or bolt or state dimension across flats hex. or square).

Optional Equipment: Vertical and Horizontal Suspension Rails in place of Spade Handle. Optional without Cable Disconnector, specify No. 987N or 987NC. Optional speed of 300 R.P.M. Free—175 R.P.M. Loaded, specify size No. 985N-300 or 985NC-300. Furnished with Reversing Switch at extra charge.

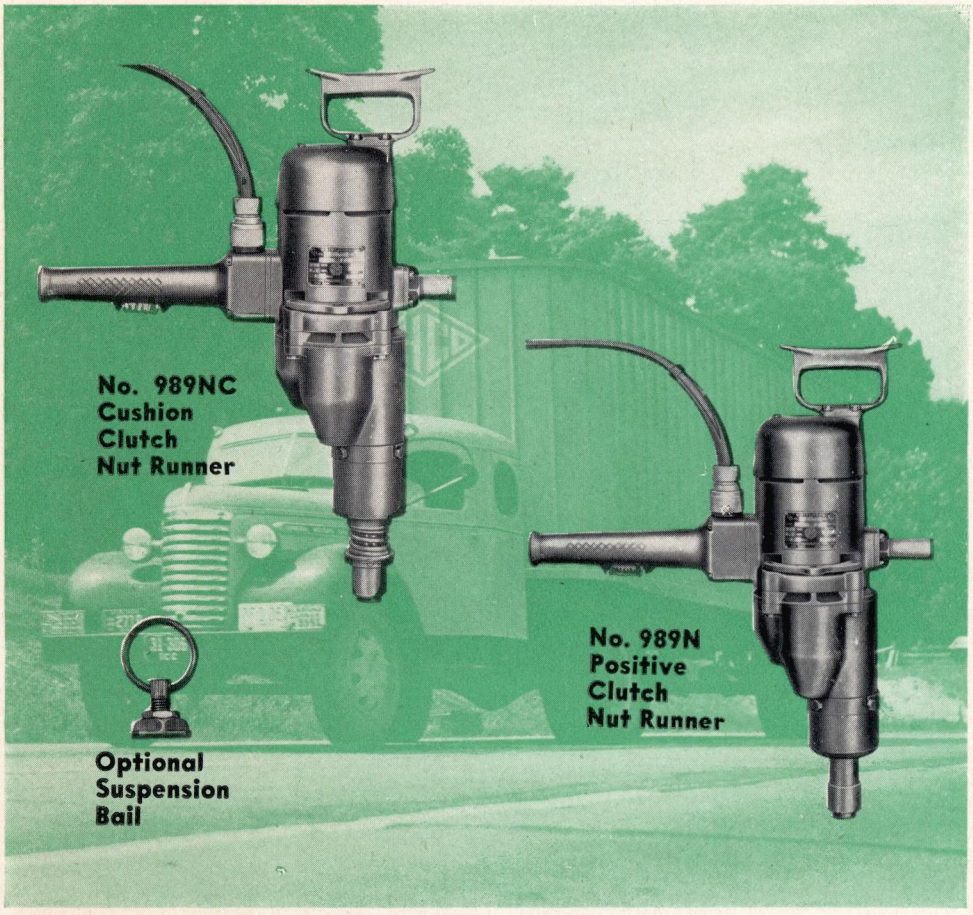
CHICAGO PNEUMATIC TOOL COMPANY

UNIVERSAL

NUT RUNNERS

UP TO 1" NUTS

UP TO 5/8" x 6" LAG SCREWS



APPLICATIONS: Recommended for tightening nuts and bolts for assembly and maintenance in marine, railway, structural steel work, bridge and building construction. No. 989N is particularly adapted for driving lag screws. Can be furnished with reversing switches for backing off nuts.

SPECIFICATIONS

Size No.	Type Clutch	Capacity	SPEED R.P.M. Free	SPEED R.P.M. Loaded	Net Weight	Length Overall	Spindle Offset	*CODE WORD 110V	*CODE WORD 220V
989N - 90	Positive	1" Nuts; 5/8" x 6" Lag Screws	90	55	35 lbs.	22"	1 5/8"	UNOGK	UNOGL
989N -150	Positive		150	90	35 lbs.	22"	1 5/8"	UNOGM	UNOGN
989N -200	Positive		200	120	35 lbs.	22"	1 5/8"	UNOGO	UNOGP
989NC- 90	Cushion		90	55	37 1/4 lbs.	23 3/4"	1 5/8"	UNOGR	UNOGS
989NC-150	Cushion		150	90	37 1/4 lbs.	23 3/4"	1 5/8"	UNOGT	UNOGU
989NC-200	Cushion		200	120	37 1/4 lbs.	23 3/4"	1 5/8"	UNOGV	UNOGW

Can be furnished for 32 Volts and 250 Volts on Special Order

*Add "REVER" for Reversible.

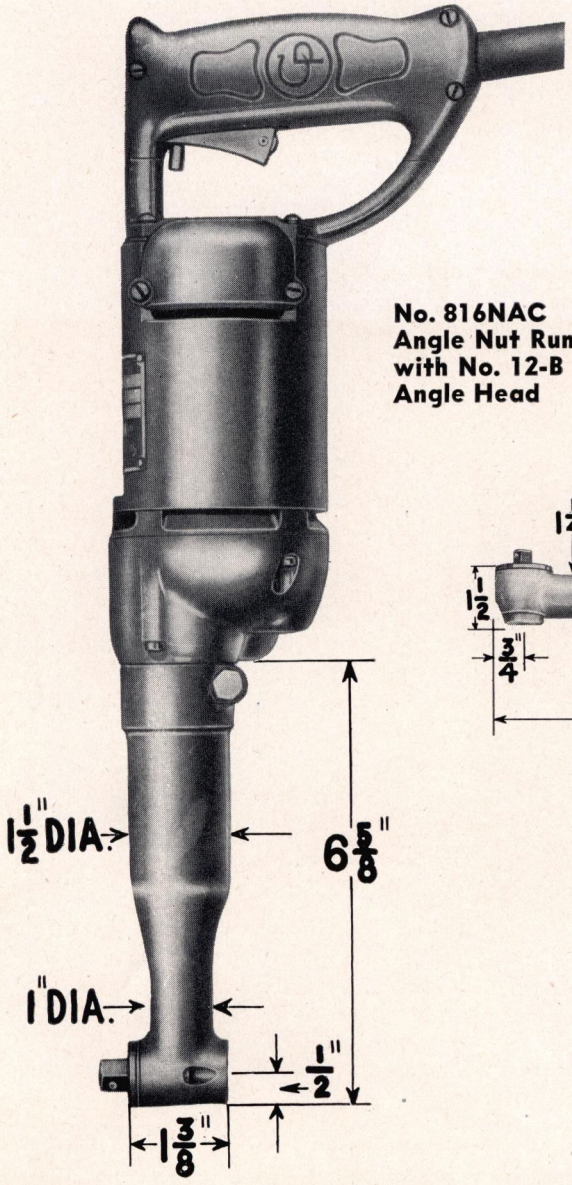
Standard Equipment: 3-Conductor Cable and Plug. Spade Handle. Dead Handle. Quick Change Chuck with 5/8" hex. socket. 1 Socket Wrench (send sample nut or bolt or state dimension across flats hex. or square).

Optional Equipment: Vertical and Horizontal Suspension Bails in place of Spade Handle.

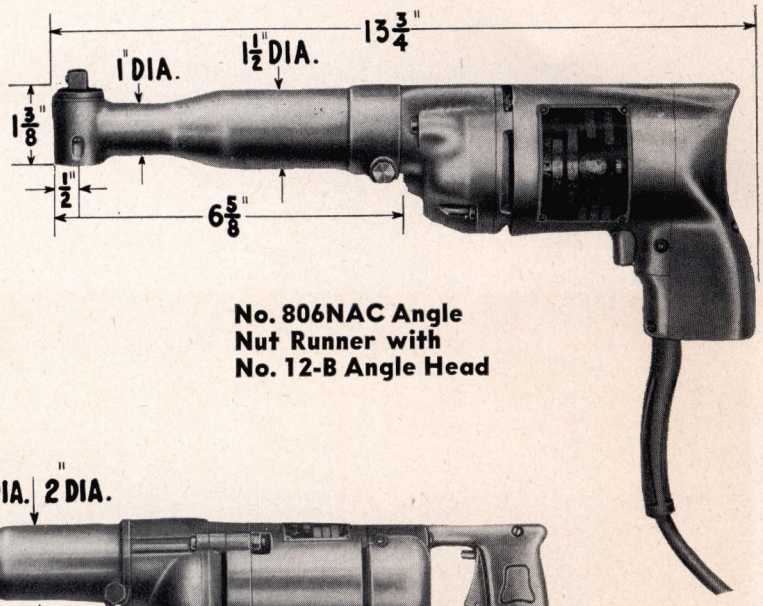
UNIVERSAL

ANGLE NUT RUNNERS

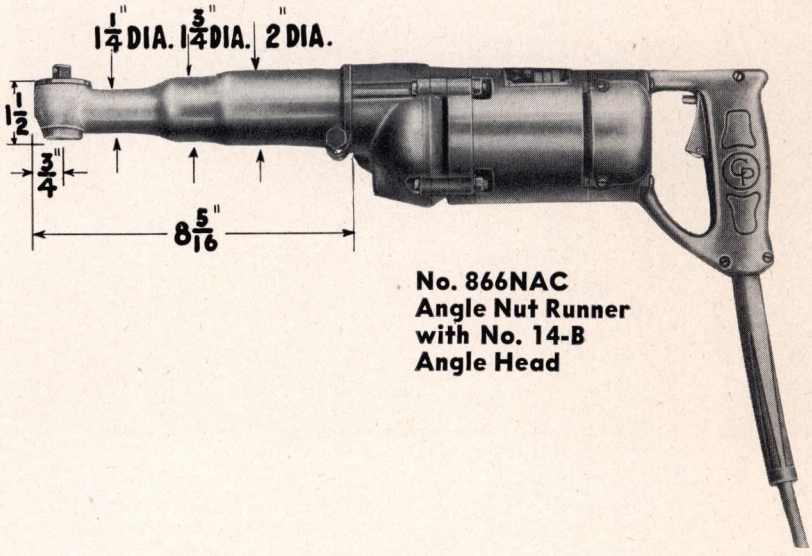
1/4" TO 3/8" NUTS



No. 816NAC Angle Nut Runner with No. 12-B Angle Head



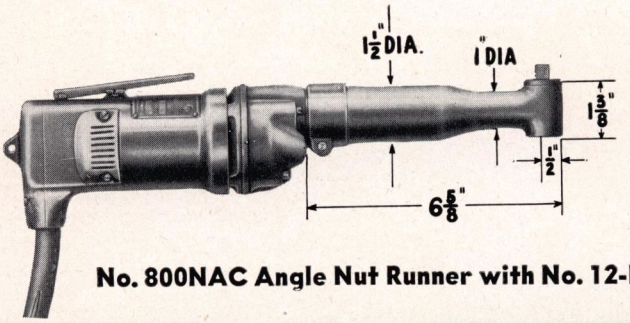
No. 806NAC Angle Nut Runner with No. 12-B Angle Head



No. 866NAC Angle Nut Runner with No. 14-B Angle Head

APPLICATIONS: In successfully solving special problems of nut running arising from unusual conditions, CP Engineers have designed hundreds of special Right Angle Head Attachments. The tools shown are typical of those that have been especially designed for the airplane industry. Many of such special Right Angle Head Attachments, because they are generally adaptable to a wide range of conditions, have become more or less standardized. They are described in detail in a Special Publication, No. 1944, gladly sent to you on request.

UNIVERSAL
ANGLE NUT RUNNERS



No. 800NAC Angle Nut Runner with No. 12-B Angle Head

SPECIFICATIONS

Size No.	CAPACITY	SPEED R.P.M.		Net Weight	Overall Length	Angle Head Spindle Offset	Angle Head No.	*CODE WORD	
	Nut Running	Free	Loaded					110V	220V
800NAC- 750	¼" Nuts	750	450	6¼ lbs.	14¾"	½"	12-B	UNOIE	UNOIF
800NAC- 550		550	330	6¼ lbs.	14¾"	½"	12-B	UNOIB	UNOIC
800NAC- 375		375	225	6¼ lbs.	14¾"	½"	12-B	UNOHZ	UNOIA
806NAC-1125		1125	675	6½ lbs.	13 9/16"	11/16"	12-B	UNACP	UNACQ
806NAC- 750		750	450	6½ lbs.	13 9/16"	11/16"	12-B	UNACR	UNACS
806NAC- 560		560	335	6½ lbs.	13 9/16"	11/16"	12-B	UNACT	UNACU
806NAC- 375		375	230	6½ lbs.	13 9/16"	11/16"	12-B	UNACV	UNACW
816NAC-1200	⅜" Nuts	1200	720	7½ lbs.	16½"	½"	12-B	UNACX	UNACY
816NAC- 750		750	450	7½ lbs.	16½"	½"	12-B	UNADA	UNADB
816NAC- 560		560	335	7½ lbs.	16½"	½"	12-B	UNADC	UNADD
816NAC- 375		375	225	7½ lbs.	16½"	½"	12-B	UNADE	UNADF
816NAC- 600		600	360	9¾ lbs.	18½"	¾"	14-B	UNADG	UNADH
816NAC- 500		500	300	9¾ lbs.	18½"	¾"	14-B	UNOIG	UNOIH
816NAC- 375		375	225	9¾ lbs.	18½"	¾"	14-B	UNADI	UNADJ
816NAC- 250		250	150	9¾ lbs.	18½"	¾"	14-B	UNADK	UNADL
866NAC- 725	⅜" Nuts	725	430	11½ lbs.	19¼"	¾"	14-B	UNOIK	UNOIL
866NAC- 500		500	300	11½ lbs.	19¼"	¾"	14-B	UNOIM	UNOIN
866NAC- 350		350	210	11½ lbs.	19¼"	¾"	14-B	UNOIO	UNOIP

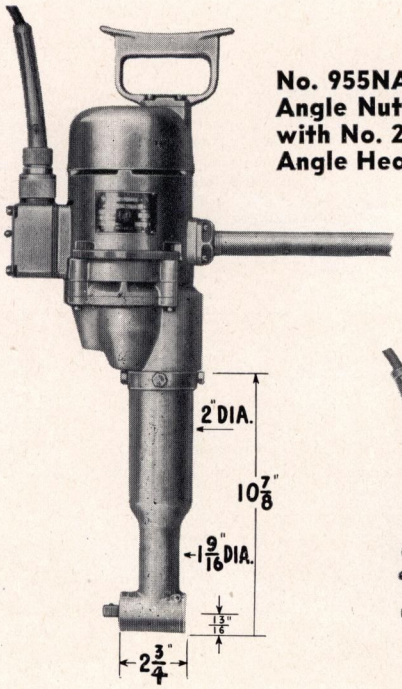
Can be furnished for 32 Volts and 250 Volts on Special Order

*Add "REVER" for Reversible.

Standard Equipment: 3-Conductor Cable and Plug. 12-B and 14-B Heads. (⅜" Sq. drive). One Socket. (Send sample nut or bolt or state dimensions across flats Hex. or Square.)

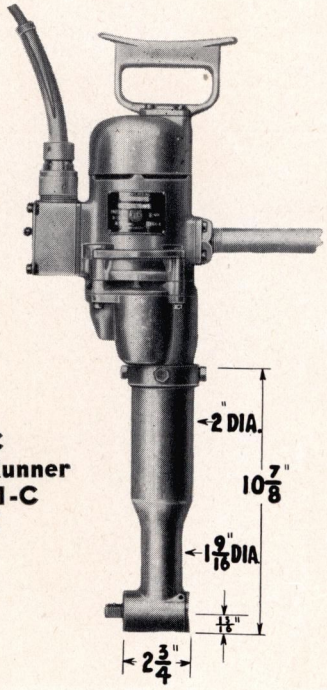
ANGLE NUT RUNNERS

1/2" AND 7/8" NUTS

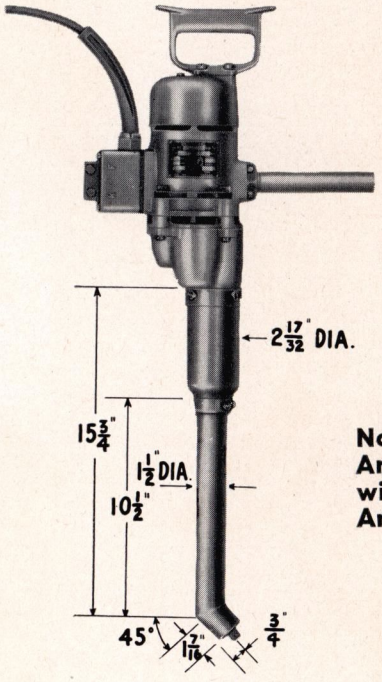


No. 955NAC Angle Nut Runner with No. 211-C Angle Head

APPLICATIONS: In successfully solving special problems of nut running arising from unusual conditions, CP Engineers have designed hundreds of special Right Angle Head Attachments. The tools shown are typical of those that have been especially designed for the airplane industry. Many of such special Right Angle Head Attachments, because they are generally adaptable to a wide range of conditions, have become more or less standardized. They are described in detail in a Special Publication, No. 1944, gladly sent to you on request.



No. 935NAC Angle Nut Runner with No. 211-C Angle Head



No. 935NAC Angle Nut Runner with No. 9-C Angle Head

Size No.	CAPACITY Nut Running	SPEED R.P.M. Free	SPEED R.P.M. Loaded	Net Weight	Overall Length	Angle Head Spindle Offset	Angle Head No.	*CODE WORD 110V	*CODE WORD 220V
935NAC-500	1/2" Nuts	500	300	24 1/4 lbs.	30 1/4"	3/4"	9-C	UNOIR	UNOIS
935NAC-750	1/2" Nuts	750	450	24 1/4 lbs.	30 1/4"	3/4"	9-C	UNOIT	UNOIU
935NAC-500	1/2" Nuts	500	300	24 3/4 lbs.	24 1/4"	13/16"	211-C	UNOIV	UNOIW
935NAC-750	1/2" Nuts	750	450	24 3/4 lbs.	24 1/4"	13/16"	211-C	UNOIX	UNOIY
955NAC-500	7/8" Nuts	500	300	31 1/4 lbs.	25"	13/16"	211-C	UNOIZ	UNOJA
955NAC-750	7/8" Nuts	750	450	31 1/4 lbs.	25"	13/16"	211-C	UNOJC	UNOJD
955NAC-200	7/8" Nuts	200	120	31 1/4 lbs.	25"	13/16"	211-C	UNOJE	UNOJF

Can be furnished for 32 Volts and 250 Volts on Special Order

*Add "REVER" for Reversible.

Standard Equipment: 3-Conductor Cable and Plug. Spade Handle and Dead Handle. No. 9-C 45° Angle Head (1/2" Sq. Adapter) or No. 211-C Angle Head (1/2" Sq. Drive) for No. 935NAC; No. 211-C Angle Head (1/2" Sq. Drive) for No. 955NAC. One Socket (send sample nut or bolt or state dimensions across flats hex or square). Horizontal Suspension Bail.

Optional Equipment: No. 9-B Angle Head in place of 9-C. Vertical Suspension Bail. Reversing Switch.

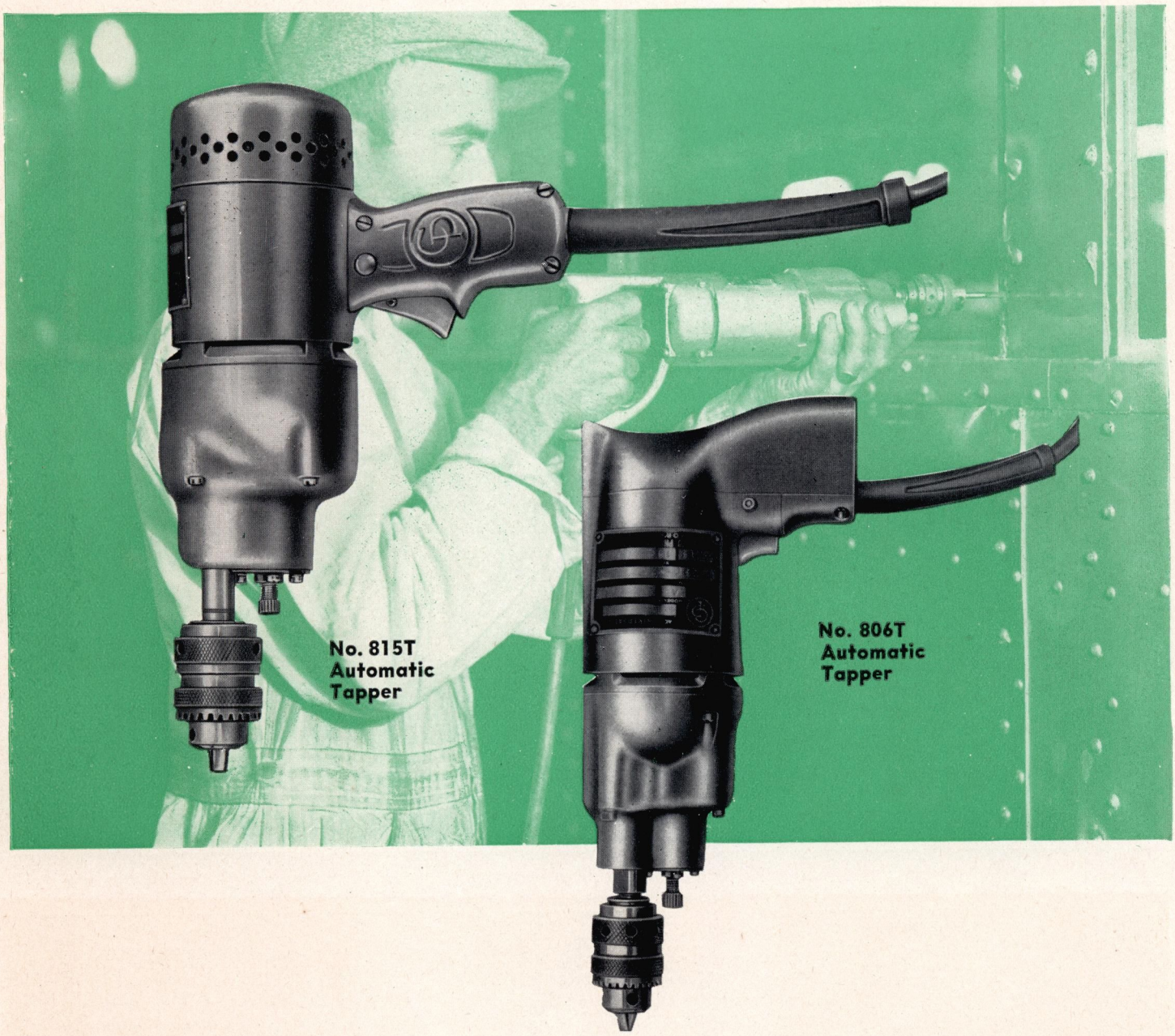
CHICAGO PNEUMATIC TOOL COMPANY

UNIVERSAL

TAPPERS

3/16" AND 3/8" IN STEEL

3/8" AND 1/2" IN ALUMINUM



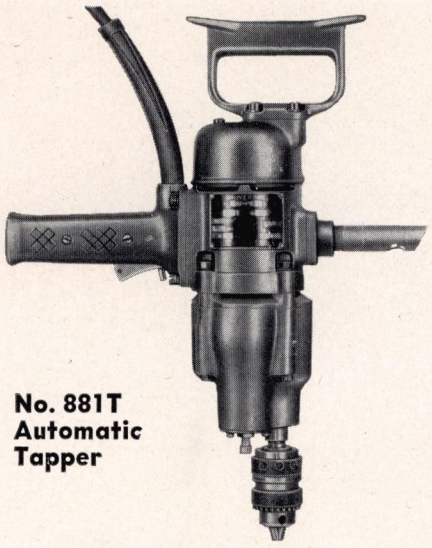
FEATURES: The operation of CP Universal Tappers is automatic. Slight forward pressure gives right hand rotation; backing the tool away from the work reverses the rotation. Equipped with an adjustable clutch which slips at predetermined overload. If properly adjusted, by means of thumb-screw projecting from gear case, clutch operates only when blind hole or other obstruction is encountered by tap up to predetermined overload adjustment. Overhanging idler gear eliminated by mounting it on first intermediate gear shaft — an exclusive feature. Cable disconnector permits renewal of cable on job. For Specifications, see next page.

UNIVERSAL

TAPPERS

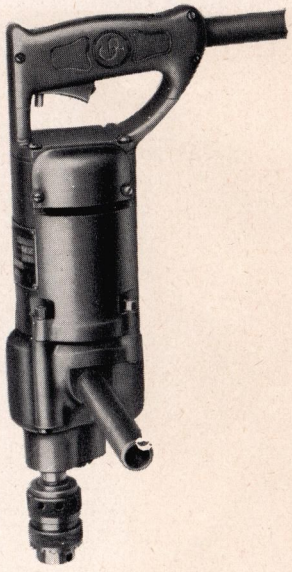
3/16" AND 3/8" IN STEEL

3/8" AND 1/2" IN ALUMINUM



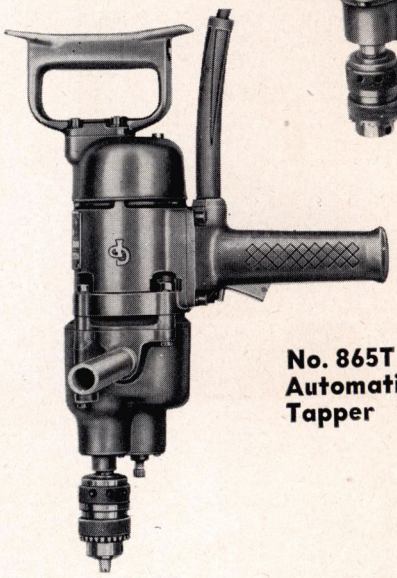
No. 881T Automatic Tapper

No. 816T Automatic Tapper



No. 866T Automatic Tapper

Nos. 818 and 868 Switch with Cable Disconnector



No. 865T Automatic Tapper

APPLICATIONS: Designed for production tapping in automobile body, passenger car, elevator, steel furniture and sheet metal fabricating plants, the Nos. 806T, 815T, 816T, 818T, 865T, 866T, 868T, 881T Automatic Tappers are also adaptable to installation and maintenance work on heating and lighting systems, pipe lines, steel partitions, shelving, etc. The Nos. 866T and 868T are often utilized for flue rolling on brass and copper flues up to 7/8" diameter.

SPECIFICATIONS

Size No.	CAPACITY		SPEED R.P.M.			Net Weight	Overall Length	Spindle Offset	CODE WORD	
	Steel	Aluminum	Free	Loaded	Reverse				110V	220V
806T-750	3/16"	3/8"	750	450	900	4½ lbs.	11"	27/32"	UNAIL	UNAIM
806T-500	3/16"	3/8"	500	300	600	4½ lbs.	11"	27/32"	UNOJO	UNOJP
815T-500	1/4"	1/2"	500	300	560	6½ lbs	11"	31/32"	UNOGZ	UNOHA
816T-500	1/4"	1/2"	500	300	560	6¾ lbs.	14½"	31/32"	UNFEL	UNFFE
818T-500	1/4"	3/8"	500	300	560	7 lbs.	14½"	31/32"	UNFGU	UNFHO
865T-400	3/8"	1/2"	400	240	450	11½ lbs.	16"	15/32"	UNOFW	UNOFX
866T-400	3/8"	1/2"	400	240	450	10½ lbs.	15¾"	15/32"	UNFAR	UNFBO
868T-400	3/8"	1/2"	400	240	450	10¾ lbs.	15¾"	15/32"	UNFCI	UNFDA
881T-400	3/8"	1/2"	400	240	450	11¾ lbs.	16"	15/32"	UNOFY	UNOFZ

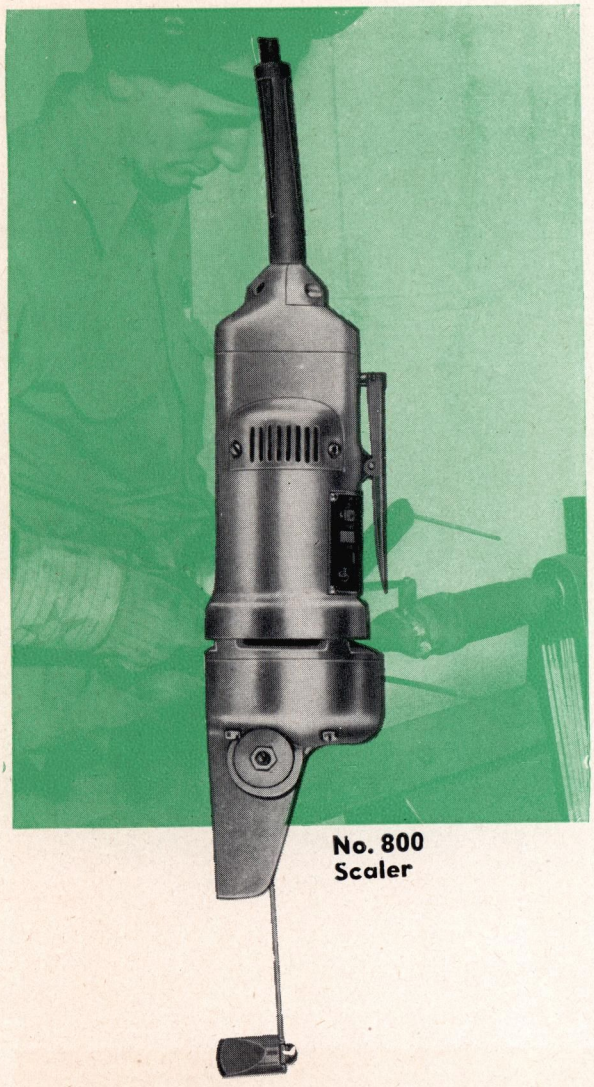
Can be furnished for 32 Volts and 250 Volts on Special Order

Standard Equipment: 3-Conductor Cable and Plug. Jacobs Tap Chuck. On Nos. 865, 866, 868, and 881T, Removable Dead Handle for gear case.

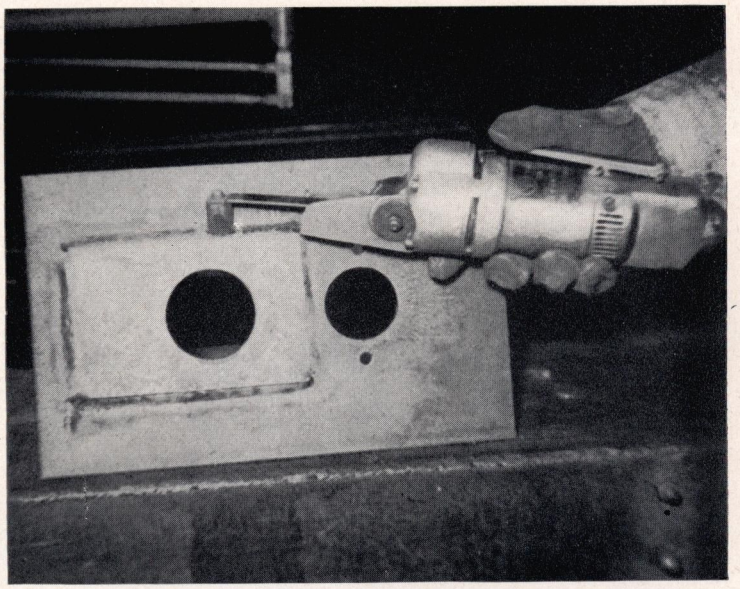
Optional Equipment: On Nos. 815T, 816T, 818T, 865T, 866T, 868T and 881T, optional speed of 725 R.P.M. Free—435 R.P.M. Loaded, Specify No. 815T-725, etc. On Nos. 815T, 816T and 818T, optional speed of 650 R.P.M. Free—390 R.P.M. Loaded. Specify No. 815T-650, etc.

CHICAGO PNEUMATIC TOOL COMPANY

SPECIAL PURPOSE SCALER

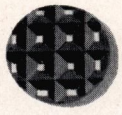


No. 800
Scaler



APPLICATIONS: A valuable tool for cleaning electric welds of flux scale, cleaning fire brick, vibrating small moulds, light riveting, etc.

Chisel Point Head for Chipping Welding Scale



12-Point Cutter Head Used for Cleaning

Combination Chisel and Cleaner Head. Also Used for Peining

FEATURES: A motor driven spring hammer. The spring handle is mounted in the vibrating shaft extending through the gear case. The energy added by the flexing of the spring handle greatly increases the impact of the hammer head. Standard equipment includes a chisel head for chipping welding scale (as shown in illustration) a combination head (a combination chisel and cleaner which is also used for peining) and a 12-point cutter (used as a cleaner).

SPECIFICATIONS

Size No.	Net Weight	Overall Length	CODE WORD	
			110V	220V
800 Scaler	4 lbs., 2 oz.	13½"	UNOGX	UNOGY

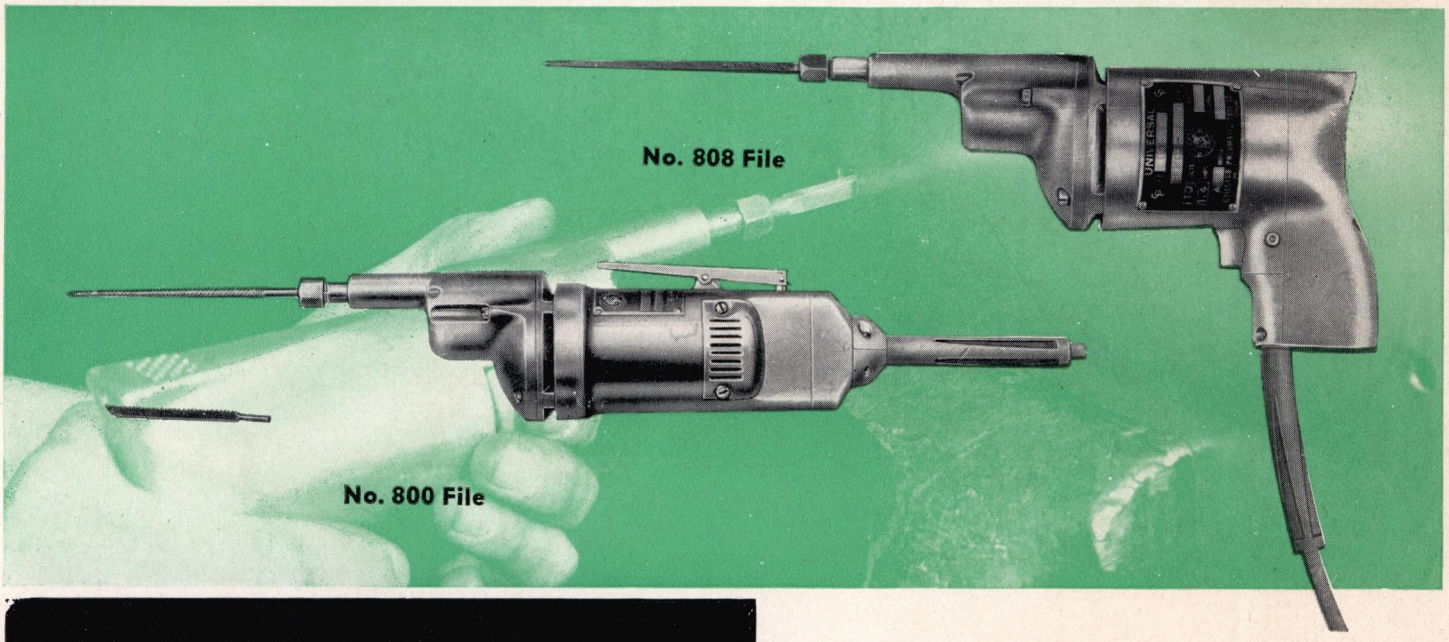
Can be furnished for 32 Volts and 250 Volts on Special Order

Standard Equipment: 3-Conductor Cable and Plug. 3 Chisels. (This Scaler Head can be put on Nos. 805 and 806 Drills, if desired.)

UNIVERSAL

FILES

RECIPROCATING TYPE



APPLICATIONS:

Extremely useful and versatile tool for quickly cleaning small die castings and speeding up general filing operations in tool and pattern shops.

FEATURES:

The oscillating movement is produced by a simple wobble mechanism. The oscillating spindle has a very long bearing and holds the file by thread and collet in any position desired.

SPECIFICATIONS

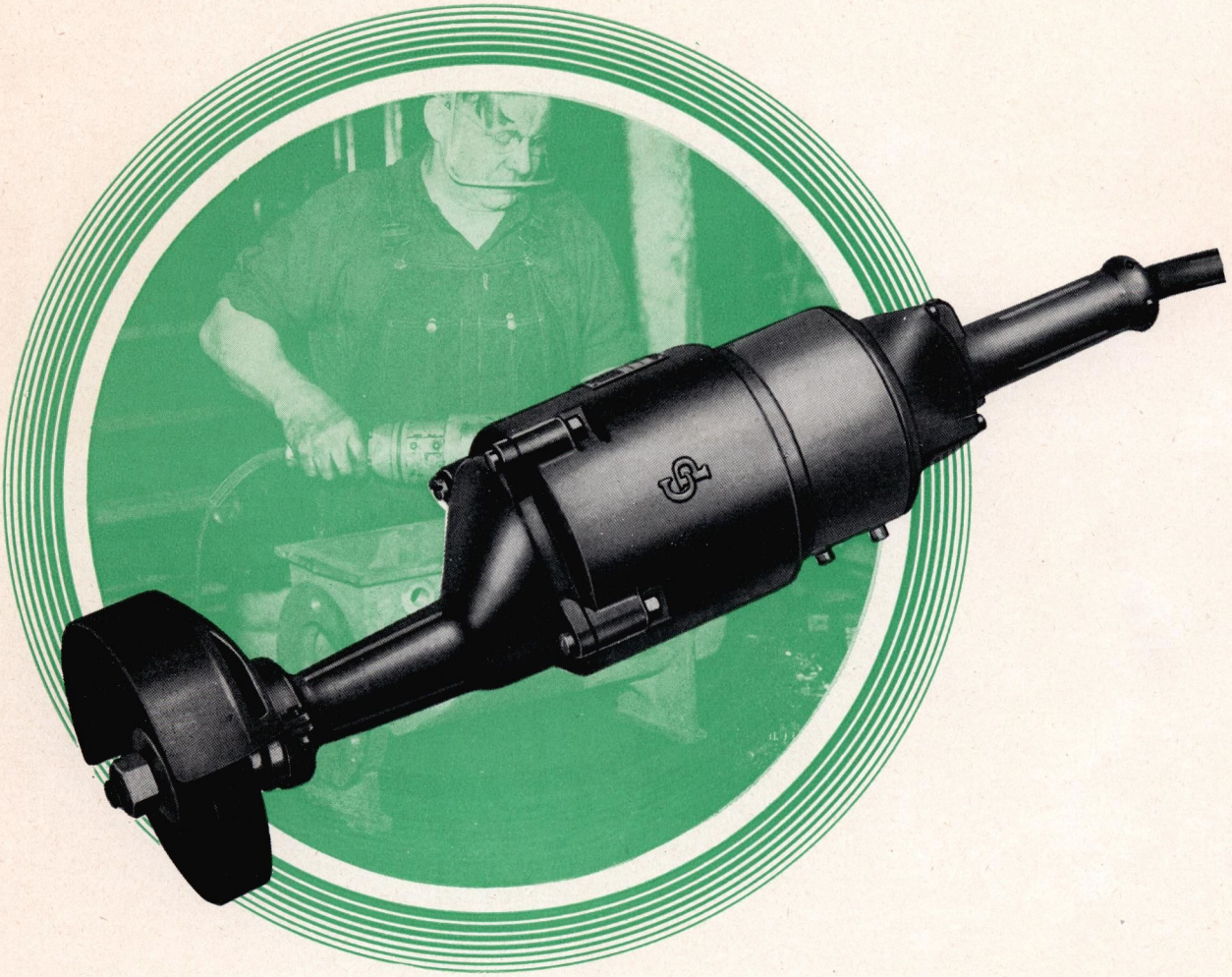
Size No.	SPEED R.P.M.		Net Weight	Overall Length	CODE WORD	
	Free	Loaded			110V	220V
800-2500	2500	1500	4¼ lbs.	11⅜"	UNOKF	UNOKG
808-2500	2500	1500	4 lbs.	10¼"	UNOGG	UNOGI

Can be furnished for 32 Volts and 250 Volts on Special Order

Standard Equipment: 3-Conductor Cable and Plug. One each of the following Files—¼" round, ¼" square, ¼" x ⅛" with safety edges. Files add 5" to length and about 1 oz. to weight. (No. 808 head can be put on Nos. 800 and 807 Drills, if desired.) (No. 800 head can be put on No. 808 and No. 807 Drills, if desired.)

CHICAGO PNEUMATIC TOOL COMPANY

UNIVERSAL GRINDERS AND SANDERS

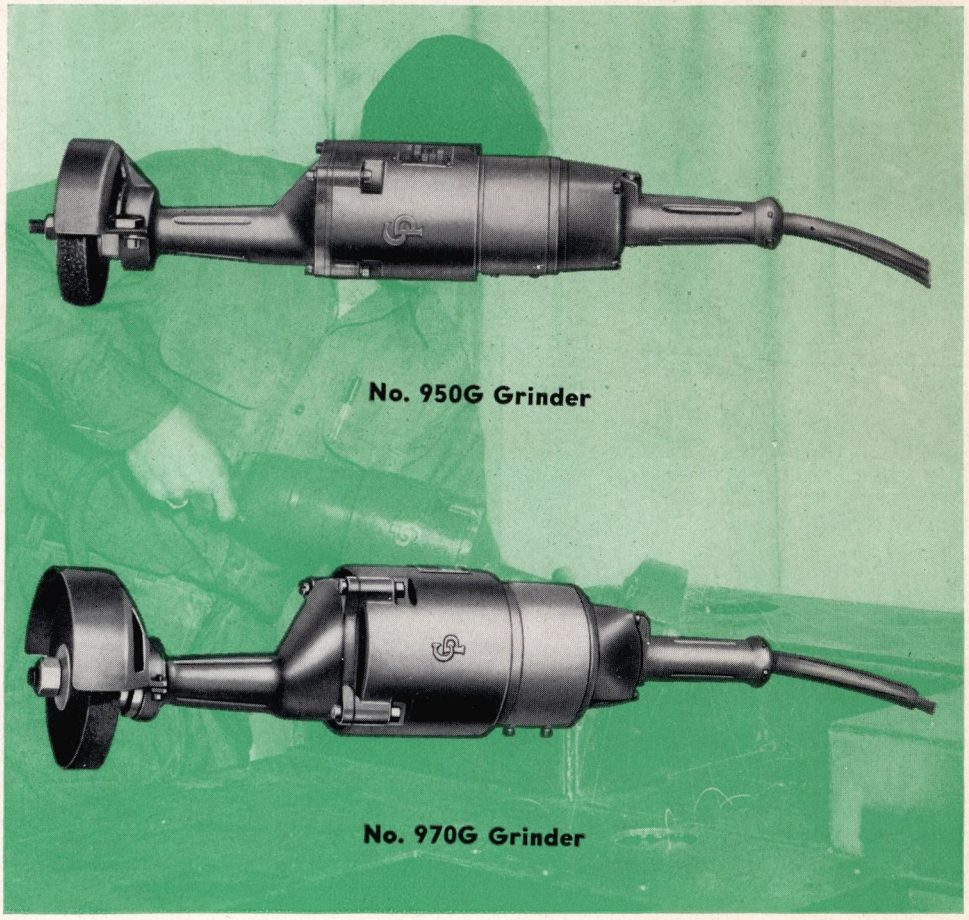


CP Universal Grinders and Sanders produce a better quality of work and insure a notable wheel and pad economy because of power sufficient to maintain practically high speed under load. Freedom from dust troubles and over-heating are provided because of TOTALLY ENCLOSED, FAN-COOLED motor. Motor is completely encased in copper shield which excludes dust and conducts motor heat to cooling air. Fan forces strong current of air over this shield and out over gear case onto work. Switch is separately and totally enclosed. Two-row ball bearings at work end of spindle have ample capacity for all radial and thrust loads. Every bearing a ball bearing — mounted in steel inserts cast integral.

UNIVERSAL

GRINDERS

5" AND 6" GRINDING



APPLICATIONS: The Nos. 950G and 970G Grinders are sturdy, efficient, low maintenance production units for general-purpose grinding and, with the proper wheel equipment, for wire brushing, buffing and polishing of all types of metal surfaces in all types of plants.

SPECIFICATIONS

Size No.	CAPACITY	Spindle	SPEED R.P.M.		Net Weight	Overall Length	CODE WORD	
	Wheel In.		Free	Loaded			110V	220V
950G-4500	5 x ¾	½"-13	4500	2700	13¾ lbs.	23¾"	UNFIP	UNFKI
970G-3900	6 x 1	⅝"-11	3900	2600	22 lbs.	24½"	UNFLE	UNFMU

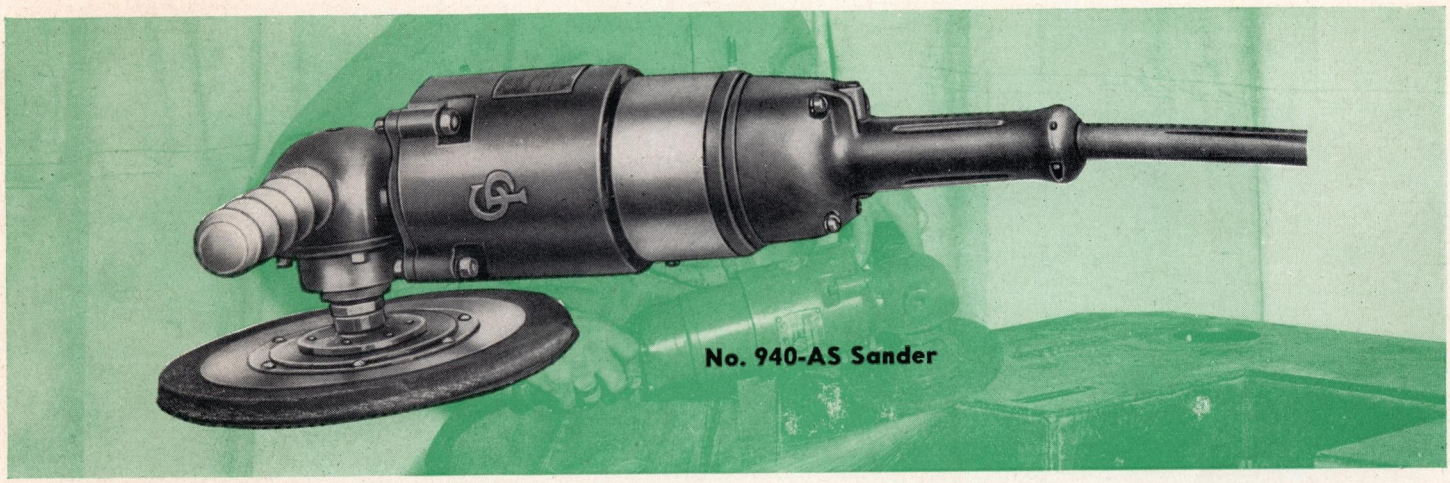
Can be furnished for 32 Volts and 250 Volts on Special Order

Standard Equipment: Adjustable pressed steel Wheel Guard. One Grinding Wheel (Med. 36G). 3-Conductor Cable and Plug. Horizontal Suspension Bail on No. 970G only.

CHICAGO PNEUMATIC TOOL COMPANY

7" AND 9" SANDING

SINGLE SPEED



STANDARD AND HEAVY DUTY MODELS

These models are ideally constructed and powered for sanding of a general nature and maintenance work such as auto body and sheet metal finishing, flat-surface rust and paint removal, wood, stone and tile surfacing, lacquer rubbing, etc. With a cup grinding wheel, they will speedily smooth welds and castings.

SPECIFICATIONS

7" STANDARD DUTY SANDER

Size No.	Diameter Pad Inches	Spindle	SPEED R.P.M. Free	SPEED R.P.M. Loaded	Net Weight	Overall Length	CODE WORD 110V	CODE WORD 220V
940-AS-4000	7	5/8-11	4000	2400	12½ lbs.	17 5/8"	UNODF	UNODG

7" HEAVY DUTY SANDER

951-AS-4200	7	5/8-11	4200	2500	15 lbs.	18 3/8"	UNODH	UNODI

Standard Equipment: 3-Conductor Cable and Plug; One 7" Diameter Rubber Sanding Pad; Three 7" Diameter Sanding Discs (One Fine, No. 80 Grit; One Medium, No. 36 Grit; One Coarse, No. 16 Grit).

Optional Equipment: Three 7" Diameter Wood or Paint Sanding Discs (One Fine, No. 80-K-5 Grit; One Medium, No. 36-K-5 Grit; One Coarse, No. 16-K-5 Grit).

9" STANDARD DUTY SANDER

953-AS-3300	9	5/8-11	3300	2000	15 lbs.	18 3/8"	UNODJ	UNODK

Above Sanders can be furnished for 32 Volts and 250 Volts on Special Order

Standard Equipment: Same as for 7" Sanders, but substituting 9" Diameter Rubber Sanding Pad and 9" Sanding Discs.

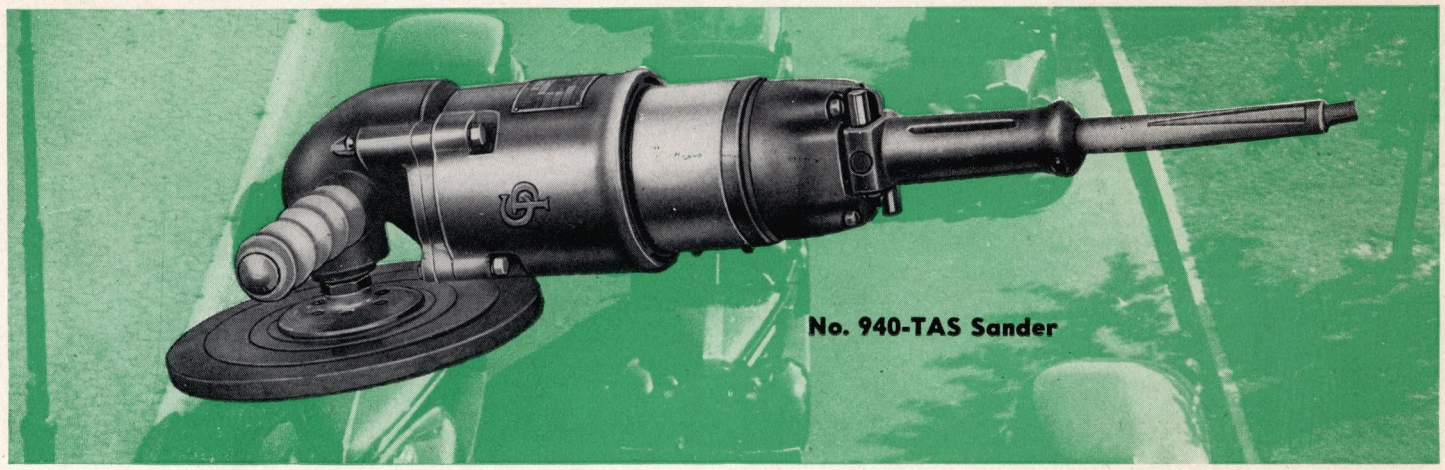
Optional Equipment: Same as for 7" Sanders, but substituting 9" Diameter Wood or Paint Sanding Discs.

UNIVERSAL

SANDERS

CP 2-SPEED

7" AND 9" SANDING



No. 940-TAS Sander

WITH "FINGER-TIP GEAR-SHIFTING"

Flexibility with simplicity — that is the advantage of the CP 2-speed sanders. You can change the Standard Duty Sander from a speed of 2400 loaded to 1500 loaded (or vice versa) simply by pressing a button — the change being made electrically without loss of power or efficiency. The Standard Duty Sander was developed for automotive and industrial users for general metal sanding.

SPECIFICATIONS

STANDARD DUTY 7" and 9" SANDER

Size No.	CAPACITY Disc, Inches	Spindle	SPEED R.P.M. Free	SPEED R.P.M. Loaded	Net Weight	Overall Length	CODE WORD 110V	CODE WORD 220V
940-TAS-4000-2500	7 9	5/8-11	4000 2500	2400 1500	14½ lbs.	18¾"	UNODB	UNODC

HEAVY DUTY 7" and 9" SANDER

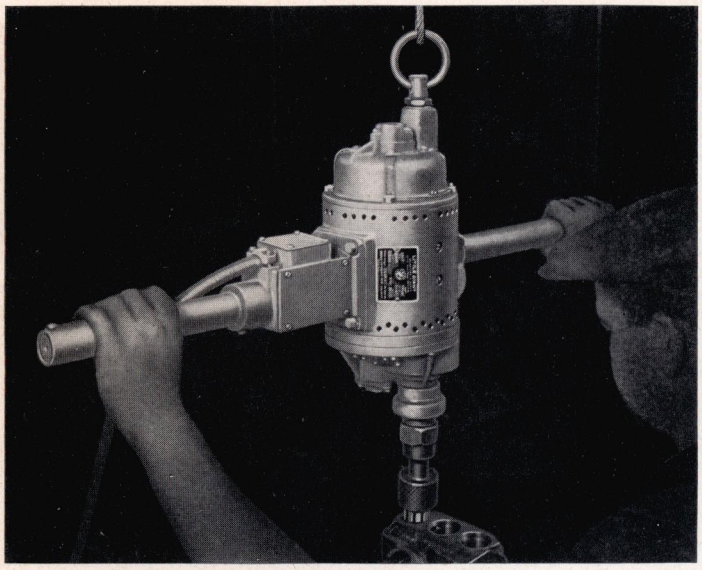
951-TAS-4300-2700	7 9	5/8-11	4300 2700	2600 1600	17 lbs.	19½"	UNODD	UNODE

Can be furnished for 32 Volts and 250 Volts on Special Order

Standard Equipment: 3-Conductor Cable and Plug; One 7" Diameter Rubber Sanding Pad; One 9" Diameter Rubber Sanding Pad; Three 9" Diameter Sanding Discs (One Fine, No. 80 Grit; One Medium, No. 36 Grit; One Coarse, No. 16 Grit); One Disc Trimmer.

Optional Equipment: Three 9" Diameter Wood or Paint Sanding Discs (One Fine, No. 80-K-5 Grit; One Medium, No. 36-K-5 Grit; One Coarse, No. 16-K-5 Grit).

CHICAGO PNEUMATIC TOOL COMPANY



D. C. Reamer

A. C. Grinder

CP also manufactures a complete line of portable electric drills, reamers and grinders for operation on either direct current or 60-cycle, three-phase, alternating current. For those whose operations dictate the use of such tools, the following specifications are given as indicating the selection available.

D. C. DRILLS and REAMERS

Size No.	CAPACITY		SPEED R. P. M.		Net Weight	Overall Length	Spindle Offset	CODE WORD	
	Drilling Metal	Reaming Metal	Free	Loaded				115V	230V
*1½B	¾"	....	490	165	32 lbs.	18⅜"	1⅞"	CUBUP	CUBUN
1½BR	....	9/16"	690	300	38 lbs.	20¼"	1⅞"	COBOD	COBOE
*2B	⅞"	....	380	155	52 lbs.	19½"	2"	CUBUL	CUBUM
2½B	1"	....	380	150	55 lbs.	21"	2"	CAFAG	CAFAH
2½BR	....	11/16"	600	245	55 lbs.	21⅜"	2"	COBOH	COBOJ
*3B	1¼"	....	360	195	68 lbs.	21½"	2¼"	COBOR	COBOS
3BR	....	15/16"	485	250	68 lbs.	22⅛"	2¼"	COBOK	COBOL
*4B-NP	1¾"	....	205	115	96 lbs.	24⅝"	2"	CUBUE	CUBUG
4BR-PE	....	1 1/16"	510	250	96 lbs.	24⅝"	2"	COBOF	COBOG
4BR-PT	....	1 5/16"	380	180	96 lbs.	24⅝"	2"	COBOM	COBON
4BR-NP	....	1 9/16"	300	145	96 lbs.	24⅝"	2"	COBOB	COBOC

A. C. GRINDERS and SANDERS (60-Cycle, 3-Phase)

GRINDERS

Size No.	CAPACITY Wheel, Ins.	Spindle	SPEED R.P.M.		Net Weight Lbs.	Length Overall, Ins.	CODE WORD 220V
			Free	Loaded			
460-G-2600	8" Vitrified	⅝"—11	2600	2350	21	23¼	COREC
460-G-3600	6" Vitrified	⅝"—11	3600	3250	21	23¼	CORED
460-G-5500	6" Elastic	⅝"—11	5500	4950	21	23¼	COREE

ANGLE GRINDERS

460-AG-3750	6" Vitrified	⅝"—11	3750	3375	21½	17	COREF
460-AG-5400	6" Elastic	⅝"—11	5400	4850	21½	17	COREH

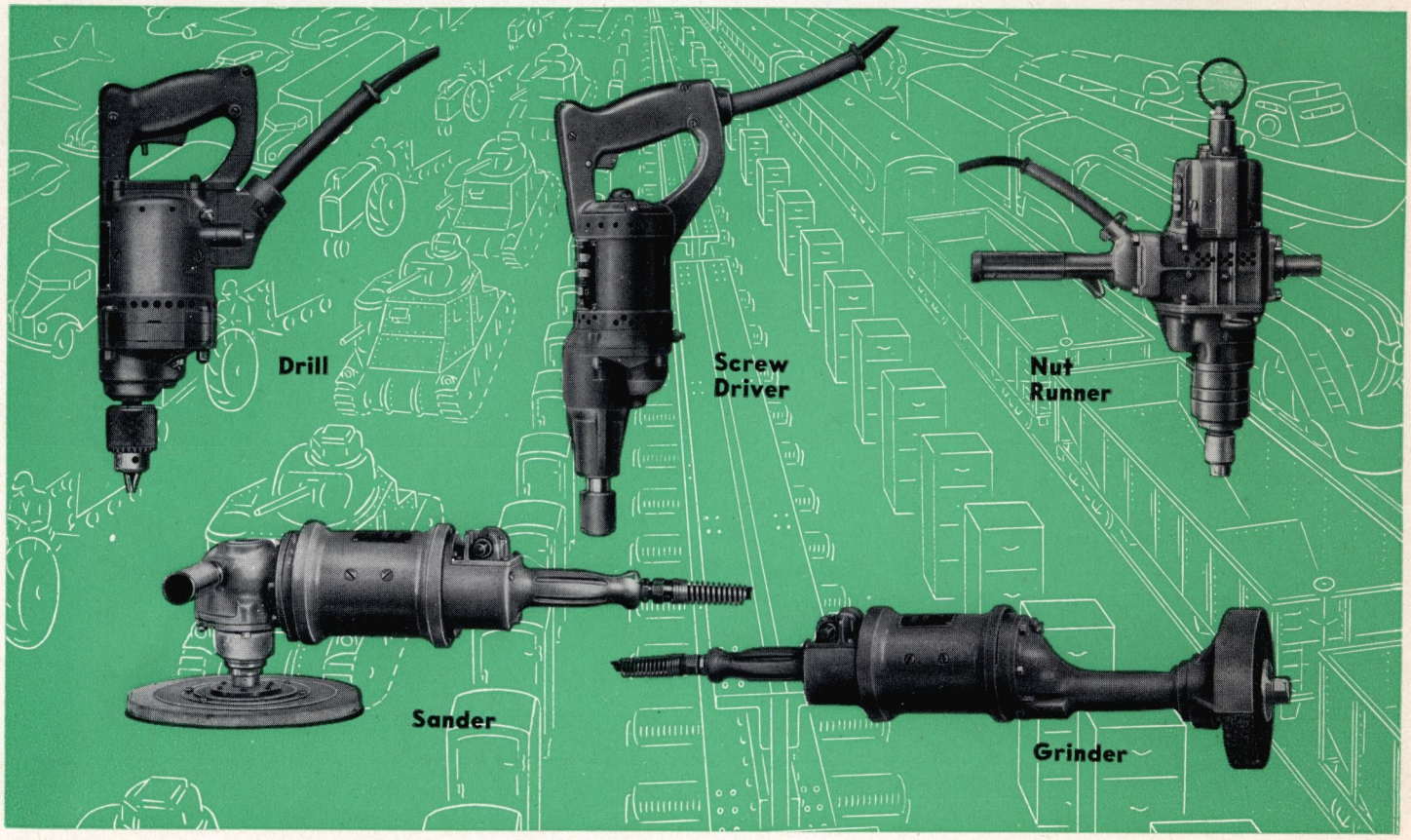
ANGLE SANDERS

460-AS-3750	9" Disc	⅝"—11	3750	3375	19¾	17	COREI
460-AS-5400	7" Disc	⅝"—11	5400	4850	19¾	17	COREJ

Hicycle TOOLS

THE ORIGINAL . . . AND STILL SUPERIOR

INCREASE PRODUCTION — DECREASE MAINTENANCE



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Hicycle Tools have set a new mark for power, speed and economy in a great many production plants throughout the world. They are available in a wide range of sizes for drilling, reaming, screw driving, nut running, tapping, stud setting, grinding, buffing, polishing and sanding.

We will gladly send you a copy of Hicycle Tool Catalog No. 900 on request. It gives complete information on these modern, high-speed production tools.

SEND FOR YOUR COPY OF CATALOG 900 — BLUE BOOK OF HICYCLE TOOLS

CHICAGO PNEUMATIC TOOL COMPANY

LIST OF CP PRODUCTS

A

AFTERCOOLERS
AIR COMPRESSORS, Portable, Stationary, Mine Car
AIRPLANE ENGINE ACCESSORIES
AIR MOTORS
AIR PUMPS
ANGLE ATTACHMENTS
ANGLE GEARS
ASPHALT CUTTERS, (Pneumatic)

B

BACKFILL TAMPERS, (Pneumatic)
BALANCERS, for Portable Tools
BEADING HAMMERS, (Pneumatic)
BITS, ROCK, SHALE, (Oil Well)
BUFFERS, Portable, (Pneumatic, Electric)

C

CALKING HAMMERS, (Pneumatic)
CHIPPING HAMMERS, (Pneumatic)
CHISEL BLANKS, (Pneumatic Tool)
CHUCKS, Drill
CLAY DIGGERS, (Pneumatic)
COAL DRILLS, (Pneumatic, Electric)
COMPRESSORS, (Air), Portable, Stationary, Mine Car
COMPRESSORS, Gas
CONCRETE SURFACERS, (Pneumatic)
CONCRETE VIBRATORS, (Pneumatic, Electric)
CONDENSERS, Barometric
COUPLINGS, Universal Hose

D

DEMOLITION TOOLS, (Pneumatic)
DIAMOND DRILLS, Air, Gas, Steam
DRIFT-BOLT DRIVERS, (Pneumatic)
DRILLS, Portable, (Pneumatic, Electric)
DRILLS, Close Quarters, (Pneumatic)
DRILLS, Coal, (Pneumatic, Electric)
DRILLS, Hammer, (Electric)
DRILLS, Rock, Woodboring, (Pneumatic)
DRILLS, Track, (Pneumatic, Electric)
DRILL STEEL, Rock
DRILLING STANDS

E

ENGINES, Gas, Oil, Diesel, Semi-Diesel

G

GAS COMPRESSORS
GRINDERS, Portable, (Pneumatic, Electric)

H

HAMMER DRILLS, (Electric)
HAMMERS, Beading, Calking, Chipping, Riveting, Scaling, Stone, (Pneumatic)
"HICYCLE," Drills, Reamers, Grinders, Screw Drivers, Nut Runners, Stud Setters, Tappers, Sanders, (Electric)
HOISTS, (Pneumatic)
HOLDER-ONS, (Pneumatic)
HOSE, Air
HOSE CLAMP TOOLS
HOSE CLAMPS
HYDRAULIC AVIATION ACCESSORIES

I

INGOT MOLD HAMMERS, (Pneumatic)

J

JAM RIVETERS, (Pneumatic)
JOINTS, TOOL, (Oil Well)

L

LUBRICANTS, (Pneumatic and Electric Tool) "Airoilene" Grease and Oil

M

MOTORS, Air

N

NUT RUNNERS, Portable, (Pneumatic, Electric)

O

OIL WELL ROCK BITS

P

PAVEMENT BREAKERS, (Pneumatic)
PORTABLE AIR COMPRESSORS
PUMPS, Sludge
PUMPS, Sump
PUMPS, Vacuum
PUMPS, Water Lift, (Air)

R

RAIL-BONDING DRILLS, (Pneumatic)
RAMMERS, Floor, Sand, Ingot Mold, (Pneumatic)
REAMERS, (Pneumatic, Electric)
RECEIVERS, Air
RECORDERS, Railway Speed
RIVET BUSTERS, (Pneumatic)
RIVET CUTTERS, (Pneumatic)
RIVET SETS
RIVETERS, Pneudraulic, Hydraulic, Corner, Jam, Pedestal, Stay-bolt, Compression, Stationary, Yoke, (Pneumatic)
RIVETING HAMMERS, (Pneumatic)
ROCK BITS, Oil Well
ROCK DRILLS, (Pneumatic)

S

SAND RAMMERS, Floor, Bench, (Pneumatic)
SANDERS, (Electric)
SCALING TOOLS, (Pneumatic)
SCREW DRIVERS, Portable, (Pneumatic, Electric)
SHALE BITS, (Oil Well)
SHEETING DRIVERS, (Pneumatic)
"SKY-DRAULIC" AVIATION CYLINDERS
SLUDGE PUMPS, (Pneumatic)
SPIKE DRIVERS, (Pneumatic, Electric)
SQUEEZE RIVETERS, (Pneumatic)
STATIONARY AIR COMPRESSORS
STATIONARY RIVETERS, (Pneumatic)
STAYBOLT RIVETERS, (Pneumatic)
STAYBOLT TAPPERS, (Pneumatic, Electric)
STONE TOOLS, (Pneumatic)
STUD SETTERS, (Electric)
SUMP PUMPS, (Pneumatic)

T

TAMPERS, Backfill, Tie, (Pneumatic)
TAPPERS, Staybolt, (Pneumatic, Electric)
TAPPING MACHINES, Portable, (Pneumatic, Electric)
TIE TAMPERS, Railroad, (Pneumatic, Electric, Gasoline)
TOOL JOINTS, (Oil Well)
TRACK DRILLS, (Pneumatic, Electric)
TUBE END POLISHERS, (External), Pneumatic

V

VACUUM PUMPS

W

WAGON DRILLS, (Pneumatic)
WINCHES, (Pneumatic)
WOODBORING MACHINES, (Pneumatic, Electric)
WRENCHES, (Pneumatic, Electric)

Y

YOKE RIVETERS, (Pneumatic)

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